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Geo. J. Ball
INC.

WEST CHICAGO
ILLINOIS U.S.A.

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All Double Petunias
Large Bed: Pink Perfection
Inset: Gaiety

"FLOWER SEEDS FOR FLORISTS"

Catalog No. 32 - Florists' Wholesale Prices - Jan.-June 1938

ALL DOUBLE PETUNIAS

THE "ALL DOUBLE" STRAINS

For pot plants there is nothing quite so fine as well grown double fringed Petunias and valuable for outdoor summer cutting. In the germination stage all double strains are weak and easily lost through overwatering or letting get too dry. These unfavorable conditions easily destroy the weakest seedlings that become the most double. This might explain an undue proportion of singles we sometimes hear about. Our annual trials show these strains 60-70% full double, balance semi.

All seed furnished by us this season is fresh, '37 crop. Germination of all varieties is around 50%. This is very good for double Petunia seed, but conditions must be favorable to get this. Because of its high cost and certain germination, we cannot entertain non-germination complaints on these All-Double varieties.

Victorious Mixture. The finely fringed All-Double Mixture. $\frac{1}{2}$ tr. pkt., 500 seeds, \$1.00; tr. pkt., 1000 seeds, \$2.00; 3 tr. pkts., for \$5.00; $\frac{1}{64}$ oz., \$6.00; $\frac{1}{32}$ oz., \$11.00.

Gaiety. Irregularly marked rose-pink and white. See colored cut on front cover. Very attractive. $\frac{1}{2}$ tr. pkt., 500 seeds, \$1.25; tr. pkt., 1000 seeds, \$2.00; 3 tr. pkts. for \$5.00.

Pink Perfection. (World Beauty). Extra choice carmine-rose-pink. $\frac{1}{2}$ tr. pkt., 500 seeds, \$1.25; tr. pkt., 1000 seeds, \$2.00; 3 tr. pkts. for \$5.00; $\frac{1}{64}$ oz., \$6.50; $\frac{1}{32}$ oz., \$12.50.

Loveliness. A shade lighter than Pink Perfection. $\frac{1}{2}$ tr. pkt., 500 seeds, \$1.25; tr. pkt., 1000 seeds, \$2.00; 3 tr. pkts. for \$5.00.

Amaranth-Red. Very rich color for bedding or pot plants. $\frac{1}{2}$ tr. pkt., 500 seeds, \$1.25; tr. pkt., 1000 seeds, \$2.00; 3 tr. pkts. for \$5.00.

Snowball. Large, clear fringed white. This is the *finest double white Petunia*. $\frac{1}{2}$ tr. pkt., 500 seeds, \$1.25; tr. pkt., 1000 seeds, \$2.00; 3 tr. pkts. for \$5.00.

White Glory. Large showy Peony-flowered white (semi-double). $\frac{1}{2}$ tr. pkt. 500 seeds, \$1.25; tr. pkt., 1000 seeds, \$2.00; 3 tr. pkts. for \$5.00.

All-Double Orchid Beauty. (New). New Orchid-colored variety of this class, flowers large and fringed. $\frac{1}{2}$ tr. pkt. only, (300 seeds) \$1.25. See Novelty pages 2-3).



Illustrated top to bottom: Pink Perfection, Gaiety, Amaranth Red

Gro. J. Ball
President



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New and Tried Items

NOTE: Under this heading we draw your attention to items we find of special value. Our selection of this list is based on our trial ground experience and, as far as possible, their behavior in various sections. Necessarily, a list of varieties of extra value must contain standard as well as new ones. We trust you will examine it with the same care we used in making it up.

Achillea Filipendula (Eupatorium). **Parker's Variety.** Strong, 3-4 ft. growth, fairly attractive, long-stemmed yellow flowers. Early Sept. Perfectly hardy.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Aster, Ball Deep Purple. Exactly the same as our Ball Deep Rose in every respect except color, which is a bright deep purple, much brighter than Royal Purple.

Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.75.

Aster, Ball Deep Rose. Heaviest selling kind on our list and shouldn't be missed because of its extra long stem, pleasing shade of deep rose, and high resistance to rot. Closely follows Royals in flowering period.

Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.75.

Aster, Enchantress. (New). Bright rose-pink, tinged salmon. Crego type. An attractive and distinct cut flower color.

Tr. pkt., 40c; ¼ oz., 70c; 1 oz., \$2.50.

Candytuft, Hyacinth-flowered—Ball Strain. We annually make a careful greenhouse reselection of our stock seed of this fine cut flower class. We are certain that our strain of this is as good as can be produced. We sow late January for Memorial Day crop.

Tr. pkt., 25c; 1 oz., 75c; 4 ozs., \$2.50; 1 lb., \$7.50.

Celosia, Fiery Feather. Bright fiery scarlet with uniform height of about 12 inches. This is a blaze of color in our latitude from early August until frost and should be more largely used. (See cut below).

Tr. pkt., 30c; ⅛ oz., 60c; ½ oz., \$2.00.

Coreopsis, Sunburst. (New Gold). Very uniformly semi-double. Long-stemmed, golden-yellow, and valuable for summer cutting.

Tr. pkt., 20c; ¼ oz., 35c; 1 oz., 90c.

Cosmos, Orange Flare. Highly attractive, early, and free flowering clear orange. Easily flowered in 4 inch pots for combinations.

Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

Cosmos, Sensation. Most valuable variety for cutting because of fine size and earliness. Available in a fairly dark rose, white, and mixture of these two.

Tr. pkt., 25c; ¼ oz., 55c; 1 oz., \$1.75.

Delphinium, Giant Pacific Hybrids. (V. & R.). We are offering seed, direct from the originator, of their new hybrid Delphinium in three distinct shades. We have not tested this new strain but have seen it growing by the originator, and we believe it is a distinct improvement in the Hybrid class. Blue Shades, Lavender Shades, Violet Shades. (See cut at right).

Each: Tr. pkt., \$1.00; ⅛ oz., \$2.00; ¼ oz., \$3.50; 1 oz., \$12.00.

Giant Pacific White. Extra fine. (Sold out until July, 1938).

Ipomaea, Heavenly Blue. "Clarke's Early." The choicest of all Morning Glories. Deep sky-blue with gold throat. Clarke's Early Strain is about two weeks earlier than the original but it does not overcome the tendency to freely produce growth at the cost of flowers. This can only be overcome by planting in poor, dry soil.

Tr. pkt., 20c; 1 oz., 75c.

Lupins, Russell Strain. Wherever hardy or perennial Lupins (*Polyphyllus*) are grown, this new English strain should be used. The *Russell* Lupin excels in size of flower and wider range of colors. Awarded Royal Horticultural Society Gold Medal. We offer seed in originator's packets as follows:

Pkt., 12 seeds, 25c; pkt., 50 seeds, 65c; 120 seeds, \$1.25; 250 seeds, \$2.50.

Marigold, Chrysanthemum Flowered. (New). Of real incurved form without collar petals. Medium to large, freely produced. Quite true to type. Distinct new form, and we believe will be excellent for forcing, as well as outdoor growing. Available in two colors: Orange—Yellow. (See cut next page).

Tr. pkt., each color, 50c; ¼ oz., \$1.00; 1 oz., \$3.50.

All colors mixed, tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.80.

Marigold, Golden Crown. (New). Rich golden yellow carnation type, 15 to 18 inches, extra free flowering. In our trial ground the past season this new English variety was quite outstanding for uniform habit and very rich coloring.

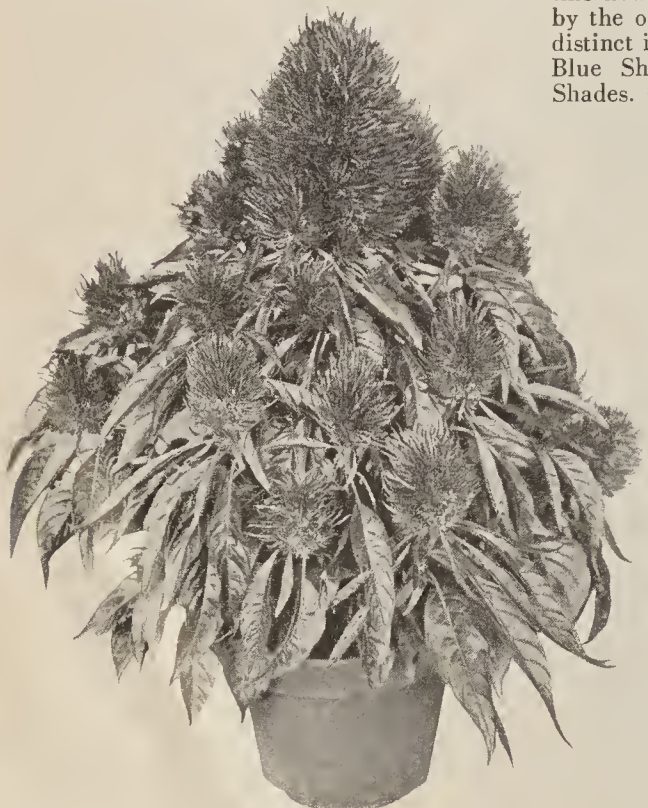
Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Marigold, Harmony. We find this small dwarf bedding variety the best in its class. It comes uniformly true to type, flowering most freely. Deep orange center with maroon collar. Should be freely used for flowering early in pots and growing in flats.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25; 4 ozs., \$3.75.



Type of the new Giant Pacific Hybrid Delphinium (V. & R.)



Fiery Feather Celosia

of Extra Value



Chrysanthemum-type Marigold has possibilities for forcing

Petunia, All-Double Orchid Beauty. (New). Irregular lilac shading on white ground. New and attractive shade in All-Doubles. ½ tr. pkts. only, (300 seeds), \$1.25.

Petunia, Ball Dwarf Giant No. 1. The most uniformly dwarf giant strain available.

½ tr. pkt., 75c; tr. pkt., \$1.25; 1/64 oz., \$2.25; 1/32 oz., \$4.00; 1/16 oz., \$7.00.

Petunia, Dwarf Elk's Pride. Introduced by us last season and should be used in place of the original stock because of more dwarf habit. About two-thirds as tall as original Elk's Pride, otherwise identical to that well known velvety purple.

Tr. pkt., 50c; 1/64 oz., \$1.00; 1/32 oz., \$1.75.

Petunia, White Queen. Extra large, ruffled, clear white. Quite outstanding for size, being fully 50% larger than White Cloud. Medium dwarf. We find this the finest white for either bedding or pots.

Tr. pkts. only, 60c.

Pappy, (Oriental), Olympia. (New). Highly attractive, light scarlet with salmon shading. 40-50% of this variety will come double flowering. This, combined with its original color, gives it outstanding value among hardy perennials.

Tr. pkts. only, 60c.

Primula Malacoides, "Brilliantcy." This is a deep rose Eriksoni strain. Flowers open light, deepening as they fully develop. Well liked for any purpose, especially combinations.

Tr. pkt., \$1.00; 6 pkts. \$5.00.

Salvia, Firebrand. Early flowering, fairly dwarf, and exceptionally uniform habit describes our strain of Firebrand Salvia. Crop usually short. Order early.

Tr. pkt., 50c; ¼ oz., 85c; 1 oz., \$3.00.

Matricaria, Ball Strain. Another Ball introduction that most growers prefer to the ordinary Feverfew for cutting because the flowers are harder and stand handling better. Flowers semi-anemone type. A January sowing will flower outdoors in July. Produces 5-10% rogues. Very uncertain in producing seed. We suggest propagating from cuttings of most desirable type.

½ tr. pkt., 30c; tr. pkt., 50c; ⅛ oz., \$1.00.

Myosotis, Ball's Early. An extra early flowering strain of the Blue Bird type and color. Should be used exclusively for cutting and valuable for pots or bedding.

Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$2.85.

Nierembergia Hippomanica.

Light lavender-blue flowers freely and continuously produced throughout our very hot mid-west summers. Uniformly dwarf compact growth, making it ideal and attractive for border work. A perennial that will winter over with some protection where winters are not severe. (See cut at right).

Tr. pkt., of 1000 seeds, 50c; 1/32 oz., \$1.75. Seed is very small and shouldn't be covered.

Petunia, Admiral. Our supply of Admiral is exclusively from the German originator, and our trials show it 98% true, one rogue showing in 50 plants. Very uniformly dwarf, fairly dark blue, and medium size. Flowers attractively ruffled. Stock limited.

Tr. pkt., 75c; 1/32 oz., \$1.75; 1/16 oz., \$3.00.

Scabiosa, Giant Hybrids. (Annual). A well-balanced mixture of all the brightest colors in this class. Long-stemmed and valuable for summer cutting.

Tr. pkt., 15c; 1 oz., 50c.

Schizanthus, Ball Brilliant Blend. Most strains of Schizanthus are inclined to be weak in color variation. Our Brilliant Blend is not a strain but our balanced mixture containing every choice, strong color available. Excellent for cutting.

Tr. pkt., 35c; ⅛ oz., 75c; ¼ oz., \$1.15.

Snapdragon, Early Sunlite. Pleasing golden orange and extra early flowering. This is our selection from the variety New Deal, that it improves in greater uniformity of color and habit. Earliest flowering forcing variety.

Tr. pkt., \$1.00; 3 pkts., \$2.50; 5 pkts., \$3.50.

Stock, Non-Branching Ball's Blue No. 3. Sent out by us several years ago, this deep mauve-blue is taking well. Except in color, it is identical to Lilac Lavender, from which we selected it. True non-branching and around 65% double.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

Stock, Non-Branching Ball's Rose Pink No. 14. (New). A shade deeper than Bismarck Rose. We believe this will be preferred to our Ball's Pink No. 11, that is a shade lighter. True non-branching habit, and around 60% double. Flowers closely set on long stems.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

Stock, Santa Maria. The best white branching available, being longer stemmed and stronger growth than Bismarck White. A true Giant of California.

Tr. pkt., 35c; ¼ oz., \$1.15; 1 oz., \$4.00.



Our trial ground line of this past summer was continuously in flower at height of 4-6 in.



Petunia White Queen
Exact photo as was, one plant from our last spring's greenhouse trials



FINE ASTERS

There is no question about a successfully grown crop of Asters being profitable anywhere. A welcome market is assured for them in advance. The problem is to grow them successfully. Also, there is no question about the rot-resistant strains going far to solve this problem. But these improved strains are not everywhere as successful as they are with the originator. The reason is quite clear. Examination of a lot of diseased plants will show various forms of trouble, some perhaps local. But it is encouraging to note the resistant varieties are successful most everywhere; and in our work of developing or strengthening them, it is assuring, indeed, to note them standing up 75 to 80 percent in soil so full of disease that non-resistant check plots are rotted out 100 percent before the summer is half over. This definitely answers the question: "Is there anything in rot-resistant Asters?"

On the other hand, if your soil is quite clean or has never grown this crop, where summers are not excessively hot, such attractive non-resistant kinds as the California Giants are successfully grown. This is especially true if everything is done to avoid a check in their growth.

IN GROWING ASTERS: The soil should be fall plowed. This not only leaves it in better shape for spring planting, but it discourages the harboring of ants that

carry aphids to the roots of Asters. This form of ant trouble is further prevented by thoroughly cleaning up all adjoining land to prevent the wintering of ants. Plowing or cultivating a 6- to 8-ft. strip around the Aster field further assures their not reaching them. Most important point in growing any plants is to avoid a check in their growth. With Asters this is clearly shown by sowing the seed where they are to flower, avoiding the check of transplanting. Even non-resistant strains will stay up when so treated. But this method brings the crop in later and short stemmed. What we can do though is avoid having seedlings large when transplanted by not sowing too early, and prevent wilting in transplanting by following closely with water; if possible, choose a cloudy day. When successfully grown under glass, we find they pay out well. Also, we find they do better on a raised bed, for the reason, we believe, that a deep ground bed of rich soil produces a very soft growth that is more easily attacked by rot than on a better ventilated raised bed, in which the growth also becomes harder.

IN MOST SECTIONS FINER ASTERS ARE GROWN IN CLOTH HOUSES. Our space will not permit going into their construction, cost, and maintenance. This and further growing notes on Asters are fully covered in our **BALL RED BOOK**. Price, 20 cents.

YOUR ASTER SEED

ERRORS in selecting varieties of Asters, or any other crop, are sometimes costly. Considering that it costs no more to grow varieties suitable to your conditions and demands, the selection of the right kind becomes important. Asters have been a leading specialty with us since 1903. We promptly recognized the great value of the successful breeding of resistant strains that was so well demonstrated and begun by Dr. L. R. Jones of the Uni-

versity of Wisconsin. This work has since been carried on by Bodger Seeds, Ltd., of California, and by ourselves at West Chicago, Illinois. All our Aster seed is grown for us by Bodgers under our personal supervision. Nowhere in the world can Aster seed be so well produced and matured as under California conditions. As usual, there will be a few shortages this season; and if seed is not ordered until March or April, some of these shortages will be felt.

BALL RESISTANT ASTERS

(12,000 seeds per ounce).

TWELVE BEST VARIETIES

THIS list is based not only on our experience with them as market growers, but on the demand from all sections as well. This gives a definite and fairly dependable preferred list. They are, furthermore, listed in the order of their value on the above basis. It will be noted that no changes have been made from last year's Twelve Best except some in the order of their value, and this change is based on seed sales. Dates are for flowering in our latitude, and will vary.

Ball Deep Rose. Clearly tops the list for sales with us. Attractive shade of deep rose, somewhat incurved and of medium size. Also extra long-stemmed and fully resistant. One of our finest productions. Aug. 25 to Sept. 5. See Novelty pages for further description.

Ball White Late. Typical American Branching type and habit. Long-stemmed, large and fully double, though not quite so full petaled as our Ball White Early that it follows in flowering season. Generally accepted as the best strain of Late Branching White. Sept. 10 to 15.

Ball Deep Purple. An attractive bright deep purple, much brighter and longer stemmed than Royal Purple, also larger. This variety is a duplicate of our Ball Deep Rose except in color. Both are cut out before the midseason crop gets in. Aug. 25 to Sept. 5. See Novelty pages for further description.

Branching Azure-Blue. Clear mid- or lavender-blue. A good clear market color that sells anywhere. Long-stemmed and highly resistant. Sept. 15 to 20.

Ball Phlox Pink. Fairly light rose-pink, the color deepening with full development. An excellent light color for cutting, with perfect American Branching habit. Sept. 5 to 10.

Ball White Early. A resistant selection from our original Ball White. The selection has not left it quite true to the original form, but it is a choice white that immediately follows the Royals. Sept. 5 to 10.

Royal White. Excellent, fairly early commercial white. Nice stems and branching habit. Aug. 25 to Sept. 1.

Royal Azure-Blue. Same color as Branching Azure-Blue. A pleasing color and a very good market variety. Sept. 5 to 10.

Royal Shell-Pink. Bright shade of Semple or Shell-Pink with extra large flowers for this class. Medium long-stemmed. For both size and color an excellent commercial variety. Sept. 1 to 5.

Queen of the Market Mid-Blue. A very good early mid-blue; valuable because of early flowering. July 15.

Queen of the Market White. The earliest good cut flower white. Fair size and good branching habit. A good variety and class for indoor growing if soil is clean. Under our conditions none of the Queen of the Markets are as resistant as the stronger and later classes. July 15 to 20.

American Beauty Silvery Rose. Fairly deep, pleasing rose, several shades deeper than our Phlox Pink. Very much non-lateral. Large flowered and long-stemmed. Introduced by us last season, and reports are generally favorable. Sept. 15 to 20.

Twelve Best Mixture. Specially selected mixture of above varieties; provides a succession of flowers from July to late September.

PRICES ON ALL ROT-RESISTANT STRAINS, except where otherwise noted, are as follows:
Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.75.

Classified List of Standard Varieties

(The twelve best not included)

QUEEN OF THE MARKET. Most popular early flowering class; of moderately strong growth, stem and size. Fairly resistant and much used for July flowering under glass—but fresh soil should be used. The two best varieties will be found among our Twelve Best.

Crimson. Brighter than most crimsons making it valuable for cutting.

Dark Blue. A rich bright shade of purple; highly resistant.

Flesh-Pink. Delicate light pink, deepening as it matures.

Scarlet. Rather heavy for cutting.

ROYALS. This class follows Queen of the Market, and is a very popular and much used one because of excellent size and stems for the early flowering date that, however, varies some. Because of the value of this class, most kinds will be found among our Twelve Best.

Purple. Bright purple; prefer Ball Deep Purple.

AMERICAN COMETS. We group the Cregos and Comets under this heading, because they are all of the same general type. All are attractive American Asters, producing more or less the same interlaced or fluffy petal effect. A highly attractive type, but does not stand shipping as well as the plain or incurved type.

Comet, Blush Pink. Light or blush-pink. Valuable for earliness and very free flowering habit. Fairly long stem. Aug. 25.
Tr. pkt., only.

Comet, Cattleya. Very pleasing orchid-lavender.
Tr. pkt., 40c; ¼ oz., 70c; 1 oz., \$2.50.

Comet, Light Blue. Azure-blue; good for cut flowers. Early September.

Comet, Rose. Fine large flowers; color a desirable deep rose shade.

Comet, White. Fine large white; some earlier flowering than others in this class.

Crego, Azure-Blue. A fine clear blue for cutting. Cregos, being long stemmed and large flowered, are generally preferred in this group. Sept. 10 to 15.

Crego, Blue Flame. Fairly deep bright blue. Highly resistant and extra for stem. Sept. 5 to 10.

Crego, Deep Rose. Fairly deep rose; a fine market variety. Sept. 10 to 15.



Our 1932 Cloth House crop of Asters. Don't let their appearance lead you to believe no improvement in Asters has been made since, for there has. Note spacing of posts. Today we space them closer, use more cross wires, and sew cloth to all wires. This means much less loss by high winds.

BALL RESISTANT ASTERS—Continued

Crego, Enchontress. (New). Attractive light rose-tinged salmon; valuable addition to this class. Good size flower and substance. Early September. See Novelty pages for further description. Pkt., 40c; $\frac{1}{4}$ oz., 70c; 1 oz., \$2.50.

Crego, Orchid. Delightful orchid-lavender shade. Long stemmed and large flowered, but stem not heavy. Highly resistant. Sept. 5 to 10.

Crego, Peochblossom. Delicate light rose deepening to bright pink. Attractive. Sept. 10 to 15.

Crego, Shell-Pink. Bright clear pink. Sept. 10 to 15.

Crego, White. Pure white; fine. Sept. 5 to 10.

Ostrich Feather, Peoch Blossom. Delicate rose deepening to bright pink. Excellent market variety. Sept. 10 to 15.

UPRIGHT BRANCHING. This class is distinctive for long-stemmed upright habit instead of spreading or branching as do most of the other classes—permitting closer spacing. Also, in cutting, the entire plant can be cut at once. Not quite so long or stiff stemmed as the Branching class, but there are a few very excellent colors in this group that should be more largely used.

Peochblossom. Typical upright close habit, opening delicate rose deepening to rich lavender-rose-pink. Sept. 10 to 15.

Purple. Rich deep purple. Sept. 10 to 15.

White. Quite large-flowered and good. Sept. 10 to 15.

AMERICAN BRANCHING. A term generally used to cover a number of midseason classes or strains of various producers. All are of spreading or branching habit, and for best results the individual branches should be disbudded. The varieties Ball White Late and Ball White Early, among the 12 Best, are typical American Branching Asters. Royals and Queen of the Markets are of the same branching habit, but September flowering kinds only are generally known as the American Branching. In addition to the two Ball Whites, the following are typical of this type:

Deep Rose. Long-stemmed large-flowered deep rose; excellent for market. Sept. 15 to 20.

Purple. Rich purple, fine stem and highly resistant. Sept. 10 to 15.

Simple Pink (Ball). Choice shell-pink. Sept. 10 to 15.

White. True branching type; excellent for cutting. Sept. 10 to 15.

KING. Attractively pointed or quilled petals give this class real distinction. Flowers are harder than most classes or types, and for this reason they do not spot or bruise so easily. The Kings are largely used for shipping from California to Eastern markets.

Crimson. Bright crimson, strictly upright habit. Sept. 10 to 15.

Peochblossom. Delicate rose deepening to bright pink. Upright growth. Sept. 10 to 15.

AMERICAN BEAUTY. A valuable and popular class because of late flowering, and large, long-stemmed, attractively incurved flowers. For northern locations the flowering dates should be noted to escape early frosts. However, most Beauties are generally satisfactory, even in our Northern border states.

Azure Foiry. Trifle darker than Branching Azure; large flowered and excellent for cutting. Sept. 20 to 25.

Crimson. Long-stemmed, good crimson color. Sept. 15 to 20.

Deep Rose. Finest rich deep rose. Sept. 15 to 20.

Purple. Long-stemmed large purple. Sept. 15 to 20.

Purple Prince. Bright marine purple. An excellent variety. Sept. 15 to 20.

Shell-Pink (September Beauty). Delicate pink, trifle lighter than Simple. Fair size, long stem. Sept. 25 to Oct. 1.

White. Long-stemmed excellent white. Sept. 20 to 25.

PRICES on ANY OF THE ABOVE Resistant Asters Except Where Noted

Tr. pkt., 35c; $\frac{1}{4}$ oz., 50c; 1 oz., \$1.75

CALIFORNIA GIANT. An extra large-flowered and most attractive cut-flower class, the flowers resembling the interlaced Crego type. Extra long-stemmed and non-lateral, which adds much to their value for cutting. We will have more colors available in resistant form in several years.

Dork Purple. Rich purple and highly resistant. Sept. 25 to Oct. 1. Tr. pkt., 50c; $\frac{1}{4}$ oz., 75c; 1 oz., \$2.50.

RESISTANT STRAINS IN MIXTURES

Queen of the Market Mixture.

Crego and Comet Mixture.

American Branching Mixture.

Royal Mixture.

King Mixture.

American Beauty Mixture.

Prices on above MIXTURES ONLY:

Tr. pkt., 30c; $\frac{1}{4}$ oz., 40c; 1 oz., \$1.50

All Varieties Mixed. This is a mixture of all the above, including the 12 Best Rot-Resistant varieties. Largely used for growing plants to sell from flats to home gardeners. This resistant mixture should be used because of reduced loss in young plants from rotting.

Tr. pkt., 20c; $\frac{1}{4}$ oz., 30c; 1 oz., \$1.00; 1 lb., \$12.00; 4 ozs. at lb. rate.

Single Varieties (Ball). In addition to the Single Southcote Beauty class, that is not resistant to rot, we offer a number of colors and mixture of a strong growing, single branching type. This strain has been developed by us and will be found exceptionally rot-resistant. The flowers are freely produced and attractive for any cut-flower work.

Deep Rose. Strong deep rose-pink; excellent.

Deep Solmon-Rose. As named; strong bright color.

Light Blue. Medium shade of blue.

White. Clear white; extra free growth.

Mixed. The four colors mixed.

Prices on Single Asters: Tr. pkt., 40c; ¼ oz., 60c; 1 oz., \$2.00.

VARIOUS RESISTANT ASTERS

Aurora Golden Sheof. Fully doubled anemone type; center cushion petals quilled, outer petals broad and flat. Creamy yellow, long-stemmed and large. Highly resistant and valuable for market. Sept. 15 to 20.

Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.75.

Heart of France. Distinctive scarlet color; approaches American Branching in type. Highly resistant. Sept. 10 to 15.

Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.75.

Solmon-Rose Shades (Ball). Attractive mixture of light to deep salmon-rose shades, many inclined to Comet type. Valuable for retail grower. Sept. 5 to 10.

Tr. pkt., 40c; ¼ oz., 60c.

Regular American Asters

Not rot-resistant.

We are very certain that the rot-resistant strains are well worth their slightly added cost. For this reason we no longer offer regular varieties that are available in resistant form.

Imbricated Pompons. Becoming increasingly popular for cut-flower use. Favorable growing conditions, including clean soil, are necessary for this class. Will not draw up long-stemmed without some shelter from full sun. We space them 8x8 inches and use wire and string support. We offer only the nicely rounded Pompon type in the following colors:

	Tr. pkt.	¼ oz.	1 oz.
*Rose	\$0.35	\$0.65	\$2.25
Light blue	.35	.65	2.25
Light blue with white center	.35	.65	2.25
Crimson with white center	.35	.65	2.25
White	.35	.65	2.25
Mixture of all colors	.25	.50	1.75

Early Wonder.

Lavender	.30	.50	1.75
Rose	.30	.50	1.75
White	.30	.50	1.75

Queen of the Market.

Dark Lavender	.20	.30	1.00
*Deep rose	.20	.30	1.00

Royal.

Lavender	.25	.35	1.30
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American Branching.

Lavender	.25	.35	1.30
Peach Blossom	.25	.35	1.30



Well Grown Asters Are Always Profitable

Single Southcote Beauty. We are offering this class in place of the Single Chinensis. The Southcote Beauty class is of heavier, stronger growth and better flowering habit. About 6 inches taller than the Chinensis. This class is much used for bedding; for cut-flowers we recommend our own strain of Rot-Resistant Singles listed in separate colors and mixture on this page.

	Tr. pkt.	¼ oz.	1 oz.
Dark blue or purple	\$0.25	\$0.40	\$1.50
Light blue or mauve	.25	.40	1.50
Rose, light rose or deep pink	.25	.40	1.50
Scarlet	.25	.40	1.50
White	.25	.40	1.50
Finest Mixed	.20	.35	1.25

Colifornio Giants.

*Deep rose	.35	.65	2.25
Peach Blossom	.35	.65	2.25
*White	.35	.65	2.25
Mixed	.25	.50	1.75

Sunshine.

Mixed	.25	.40	1.25
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Giant Colifornia Sunshine. Under our conditions this class is not of particular value for cutting.

	Tr. pkt.	¼ oz.	1 oz.
Lavender	\$0.35	\$0.90	\$3.00
Rose	.35	.90	3.00
Shell-pink	.35	.90	3.00
White	.35	.90	3.00
Mixed	.30	.60	2.25

*Ball White. Finest white Aster.

Original stock	.35	.50	1.75
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*Boltze's Dwarf Bouquet. Mixed.

Fine for pot plants	.35	.90	3.00
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*Super Giant El Monte. Extra large

crimson-rose. Non-lateral	.35	.75	2.50
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***Super Giant Los Angeles.** Soft light shell-pink. Extra large and fully double. One of the very choicest and finest Asters in cultivation.

	.35	.75	2.50
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FINE PETUNIAS

Easily and economically grown from seed and right at home in every corner of our broad land, are reasons why Petunias are No. 1 florist crop. Petunias are not only valuable; but if cost of production figures were available, chances are they would be found the most profitable crop. A very hot, dry summer exposes them to a severe test. Such conditions plainly show some varieties or classes better able to hold up than others. For this reason some are better used for bedding, others for spring sales in 3 or 4 in. pots. However, classes such as the Grandifloras and Dwarf Giants that do not prosper under our hot summers might do particularly well where conditions are not so extreme. These classes should be more liberally treated than the stronger growing small flowered kinds that should not be too largely depended upon. Some Grandifloras are strong and hold up well, particularly with a little encouragement.

We annually run trials, not only of all varieties on our list but every new kind offered by reputable producers. We are determined to have our list of Petunias most complete and dependable, and we spare no cost in trials from all parts of the world to make it so.

Furthermore: We publish a circular on the handling of Petunias, a copy of which is enclosed with every Petunia seed order. The particular value and use of every class and the germination of the seed is fully treated.

The best varieties in the following list are starred (*). In determining such varieties we not only use our trial ground experience, but the general preference from all sections is also considered. Also note that we have tried to be exact in all descriptions.

ALL-DOUBLE

For full list, description and prices of All-Double Petunias see inside front cover page.

Various Double Strains

Double Fringed Modonno. Fairly good strain of double fringed white.

½ tr. pkt., 75c; tr. pkt., \$1.50.

Double Shepherd's Pride. Very choice salmon- or shrimp-pink with low percentage of doubles. We suggest working up a stock thru cuttings from seedlings.

½ tr. pkt., 75c; tr. pkt., \$1.50.

Double Rosy Morn. (Carnation-flowered). Small bright rose, 40-50% semi-double. Of nice dwarf habit.

Tr. pkt., (1000 seeds), \$1.00; 1/64 oz., \$1.75.

Double Perfection. (Benary). Introducer's description: "Remarkable strain of double Petunias of true giant ruffled type, and producing about 80% of double blooming huge flowers with strongly waved petals. Rich range of colors varying from deep crimson-rose to pink and white, many bicolors."

Tr. pkt., \$2.00.

California Giants

140,000 seeds per ounce.

Extra large flowered real giants. The regular or tall growing type of this class is fine for bedding, the growth being stronger than the dwarf kind, generally known as Dwarf California Giants. This dwarf class makes particularly fine 3 and 4 in. pot plants for spring business. Seed for this purpose should be sown in January.



Far as we have noted, this is the season's best bed of Petunias—All-Double Pink Perfection with All-Double Snowball partly showing. This class is more valuable for bedding than many weaker growing single kinds. The hedge is Kochia Childsi edged with Celosia Dwarf Fiery Feather.

We give particular attention to our strain of Dwarf Giant Petunias, and we do not believe a better one is available. Order by number and name to avoid possible errors.

***No. 1. Ball Dwarf Giants.** Most uniformly dwarf strain possible to produce. Grown for us by a European specialist. See Novelty List for further description.

½ tr. pkt., 75c; tr. pkt., \$1.25; 1/64 oz., \$2.25; 1/32 oz., \$4.00; 1/16 oz., \$7.00.

***No. 2. Dwarf Giants, Romono Stroin.** While not quite so uniform as our No. 1 stock, this will be found a most excellent strain of Dwarf Giants.

½ tr. pkt., 60c; tr. pkt., \$1.00; 1/64 oz., \$1.75; 1/32 oz., \$2.75; 1/16 oz., \$5.00.

No. 6. Dwarf Giants, Eriksson Stroin. A carefully made greenhouse strain produced by Ernst Eriksson, Chicago. We supply Mr. Eriksson's seed in his packets.

Tr. pkt., \$1.25.

No. 3. Giants of Colifornio, Medium Dwarf. This is the same true Giant strain as our No. 2 but with growth somewhat taller, not a regular tall Giant. Very good for bedding.

Tr. pkt., 75c; 1/64 oz., \$1.50; 1/32 oz., \$2.75; 1/16 oz., \$4.50.

No. 4. Giants of Colifornio, Medium Dwarf, Light Shades. Same as No. 3 except that colors are lighter.

Tr. pkt., 75c; 1/64 oz., \$1.50; 1/32 oz., \$2.75; 1/16 oz., \$4.50.

No. 5. Giants of Colifornia. Strictly Giants of tall habit. The original California Giant strain. Of strong growth and valued for bedding.

Tr. pkt., 50c; 1/64 oz., \$1.00; 1/32 oz., \$1.50; 1/16 oz., \$2.50.

Giants In Separate Colors

This popular class is medium tall with the same giant open throat flowers found in the California Giants. Nearly all come quite true to color, but the few small flowered types among them can not be avoided.

***Salmon Beauty.** (New). Very pleasing shade of salmon-pink.

Tr. pkt., 75c; 1/64 oz., \$1.50; 1/32 oz., \$2.50.

FINE PETUNIAS—Continued

- ***Silvery Rose.** Fairly light silvery-rose shading lighter toward the throat. A very pleasing color.
Tr. pkt., 75c; 1/64 oz., \$1.50; 1/32 oz., \$2.50.
- ***Copper-Red, Dark.** Rich coppery crimson with darker throat. A very striking color.
Tr. pkt., 75c; 1/64 oz., \$1.25; 1/32 oz., \$2.25.
- Copper-Red, Light.** Rich old rose or light copper-red.
Tr. pkt., 75c; 1/64 oz., \$1.25; 1/32 oz., \$2.25.
- Germon Empress.** Bluish white with dark throat. Effective and contrasting colors for bedding.
Tr. pkt., 50c; 1/64 oz., \$1.25.
- ***Robin Hood.** Rich deep rose with dark throat and effective ruffled edge.
Tr. pkt., 75c; 1/64 oz., \$1.50.
- Prince of Wuertemberg.** Deep rose with dark throat.
Tr. pkt., 50c; 1/64 oz., \$1.15; 1/32 oz., \$2.20.
- Princess of Wuertemberg.** Bright rose-pink with veined dark throat. A popular light color.
Tr. pkt., 50c; 1/64 oz., \$1.25; 1/32 oz., \$2.25.
- Rheingold.** Large white with yellow throat.
Tr. pkt., 50c; 1/64 oz., \$1.15; 1/32 oz., \$2.20.

Dwarf Erfurt—Grandiflora Fringed

- For neat compact growth and richly fringed flowers, this class is most valuable for use as pot plants. Also highly attractive for bedding where summer conditions are not extreme.
- Dainty Lady.** Sent out as a yellow Petunia, it might well be called a dark cream. Not especially attractive but uniformly dwarf and nicely fringed. Quite true.
Tr. pkt., 50c; 1/64 oz., \$1.75.
 - ***Setting Sun.** Brilliant rose with ideal compact growth and beautifully fringed. Our stock of this is grown by a German specialist, and we are certain that better stock is not available.
Tr. pkt., 50c; 1/64 oz., \$1.50; 1/32 oz., \$2.50.
 - ***Loce Veil.** Richly fringed, uniformly dwarf white.
Tr. pkt., 50c; 1/64 oz., \$1.50; 1/32 oz., \$2.50.
 - ***Goiety.** Irregularly colored pink and white. Finely fringed and of strong growth.
Tr. pkt., 50c; 1/64 oz., \$1.25; 1/32 oz., \$2.00.
 - Pepito.** Irregularly colored carmine and white. Dwarf and finely fringed.
Tr. pkt., 50c.
 - Gottfried Michaelis.** Rich amaranth-red. A distinct though rather heavy color.
Tr. pkt., 50c.

Grandiflora—Single Fringed

Following are the standard varieties in this class, not quite so compact as the Dwarf Erfurts but dwarf enough to be choice for bedding or pots.

Colorado Sunset. (New). Uniformly dwarf, attractively fringed bright rose-pink. Differs from Dwarf Erfurts in being nearly 100% true to its dwarf, free flowering, spreading habit, and nicely fringed flower. Originator packets from Burghard Floral Co., Colorado Springs, Colorado.
In 1000-seed trade packets only, 75c.

- Apple Blossom.** Pleasing light shell-pink. Makes a choice pot plant but weak for bedding.
Tr. pkt., 50c; 1/64 oz., \$1.25.
- Aurora.** Attractive light rose, veined purple-rose.
Tr. pkt., 50c; 1/64 oz., \$1.25.
- Columbio.** Pleasing combination of irregularly marked pink and white. This has a distinct upright growth that is quite unlike any other variety. Outdoors should be planted in a sheltered location to avoid being blown over. 14-16 in.
Tr. pkt., 50c; 1/64 oz., \$1.50.
- Golden Jubilee.** (Benary). Strikingly bright carmine tinged scarlet. Deeply and most effectively fringed. A true Grandiflora Fimbriata that will be found of outstanding value as a pot plant, but we find the growth somewhat weak to stand our outdoor mid-summer conditions.
Tr. pkt., (originator's seed), 75c.

- ***Moculoto.** Large irregularly colored rose and white. Very attractive.
Tr. pkt., 50c; 1/64 oz., \$1.25; 1/32 oz., \$2.25.
- ***Pink Triumph.** Brightly fringed rose-pink. An excellent standard variety.
Tr. pkt., 50c; 1/32 oz., \$1.10.
- Pride of Portland.** Large clear rose-pink, well fringed.
Tr. pkt., 50c; 1/64 oz., 75c; 1/32 oz., \$1.25.
- Romony Loss.** Richly fringed crimson-rose.
Tr. pkt., 50c; 1/64 oz., \$1.25; 1/32 oz., \$2.00.
- ***Fringed Royal Purple.** (Marine). Rich, deep velvety purple. Finest in this color class. Our stock has been 75-80% true.
Tr. pkt., 75c; 1/64 oz., \$1.50; 1/32 oz., \$2.75.
- Theodosio.** Well known rose-pink with gold throat.
Tr. pkt., 50c; 1/64 oz., \$1.00; 1/32 oz., \$1.75.
- ***White Beauty.** Finely fringed clear white. Strong growth that flowers freely throughout the summer.
Tr. pkt., 50c; 1/64 oz., 75c; 1/32 oz., \$1.25.

Grandiflora Single Fringed Mixtures

The following strains are of strong, extra free flowering growth, covering themselves with a well-colored mixture of flowers throughout summer. Excellent for growing in flats and bedding.

- ***Boll Single Fringed No. 1.** A distinctly strong growing, free flowering strain. Color range medium light. Nearly 100% fringed.
Tr. pkt., 50c; 1/32 oz., \$1.00; 1/16 oz., \$1.75; 1/8 oz., \$2.75; 1/4 oz., \$5.00.
- Ball Single Fringed No. 3.** A few years ago we were supplied a dwarf double strain that proved nearly 100% single. The dwarf habit, size, and fringe was attractive. This becomes our Single Fringed No. 3. Light rose-pink colors predominate. Excellent for bedding.
Tr. pkt., 50c; 1/32 oz., \$1.00; 1/16 oz., \$1.75; 1/8 oz., \$2.75; 1/4 oz., \$5.00.

- Fluffy Ruffles.** Colors in our strain of this extra fringed mixture are well balanced, and many fairly dark attractive ones will be found in it.
Tr. pkt., 50c; 1/32 oz., \$1.25; 1/8 oz., \$3.75.

Grandiflora Single Ruffled and Plain Edge

Some of the most deservedly popular bedding and pot plant varieties will be found in this class. All, except as noted, are of strong growth that holds up well under our conditions for bedding.

- ***White Queen.** (Ball). An extra large ruffled, clear white, fully 50% larger than any in this list. The finest all-purpose single white Petunia. See Novelty List for further description.
Tr. pkt., 75c; 1/64 oz., \$1.75.
- ***Elk's Pride Dwarf.** (Ball). About one-third more dwarf than the original Elk's Pride, that gets tall and leggy when used for bedding. Same color, size, and wavy flowers of the original Elk's Pride. See Novelty List for further description.
Tr. pkt., 50c; 1/64 oz., \$1.00; 1/32 oz., \$1.75.

- Bolcony Queen.** Irregularly marked, velvety purple and white, largely purple.
Tr. pkt., 50c; 1/64 oz., 90c; 1/32 oz., \$1.60.
- Berolino.** (New). An unusually large flowered, nicely ruffled, purplish-violet. Fairly dwarf, quite uniform, and attractive.
Tr. pkt., 75c; 1/64 oz., \$1.25.
- Brilliant Rose.** Very effective bright rose.
Tr. pkt., 50c; 1/64 oz., \$1.50.
- Burgundy.** (New). Strong Burgundy-red with brightly contrasting white throat. Valuable for attractively combined colors and free flowering, strong growth.
Tr. pkt., 50c; 1/32 oz., \$1.25.
- ***Dwarf Carmine Glory.** (New). Deep bright carmine-pink. An attractive bedding color and with nice size and habit. More uniform habit and deeper color than Pink Glory.
Tr. pkt., 75c; 1/64 oz., \$1.50.
- Dwarf Pink Glory.** Around 75% of this is of perfect habit and large size. Color is an attractive and outstanding one.
Tr. pkt., 50c; 1/64 oz., \$1.00; 1/32 oz., \$1.75.

FINE PETUNIAS—Continued

Elk's Pride Improved. This is a very select stock that improves, for uniform size, the original stock. Rich velvety purple.
Tr. pkt., 50c; 1/64 oz., \$1.00; 1/32 oz., \$1.75.

Giant Steel Blue. Light bluish white with dark veins.
Tr. pkt., 50c; 1/32 oz., \$1.25.

Queen of the Market. Bright deep carmine, nearest to scarlet in Petunias. Well ruffled edge adds to its attractiveness.
Tr. pkt., 50c; 1/64 oz., \$1.25.

***White Cloud.** An effective all-purpose white Petunia. Ideal, compact growth, nicely ruffled flowers and of fairly strong growth. Much used for bedding.
Tr. pkt., 50c; 1/64 oz., \$1.00; 1/32 oz., \$1.60; 1/16 oz., \$2.75; 1/8 oz., \$4.75.

***Silver Seom.** Sometimes wrongly listed as Purple Robe, this variety is highly attractive as a pot plant. Extra large purple flowers, edged with a light or silver seam. Growth is not vigorous enough for bedding.
Tr. pkt., 50c; 1/64 oz., \$1.25.

Balcony Type

We have added several valuable varieties to our list of this class, and we are sure they will do much to increase the interest in this group. Most Balcony varieties are of strong spreading growth and for this reason are most effectively used for outdoors where summers are trying. They haven't the compact habit of the Dwarf Hybrids, but the mass effect is fuller and more certain, with flowers considerably larger. Also popular for porch boxes and vases because of their overhanging habit. Note that several of the new varieties we list this season are of more dwarf growth than the type and such should not be used where the overhanging effect is wanted.

THE NEW BALCONIES

***Cormine King.** Light coppery rose. Rich and effective dark color, with dwarf growth. **TRADE PACKETS ONLY.**

Cormine Rose. Brilliant golden rose. Good medium dwarf Balcony habit. Outstanding for color, being much brighter than Balcony Rose.

***Warrior.** Strong velvety crimson with typical heavy Balcony growth. Effective and true to color.

Venoso. Deep lilac with dark throat, medium dwarf. Choice for bedding.

Violet Blue. Medium to deep violet with true Balcony growth.

***Block Prince.** Rich velvety crimson-red. An outstanding color in the newer Balconies and with true Balcony habit. Practically 100% true to color.

Blue Star. Very uniformly starred white on dark blue, with more white than blue. Growth compact tending to be erect. Choice for bedding.
Price on all above New Balconies: Tr. pkt., 35c; 1/16 oz., 60c; 1/8 oz., \$1.00.

STANDARD BALCONIES

Albo, Crimson, Rose, Royal Purple, Mixture.

Each above: Tr. pkt., 35c; 1/8 oz., 75c; 1/4 oz., \$1.35; 1 oz., \$4.50.

Blue. Tr. pkt., 35c; 1/16 oz., 60c; 1/4 oz., \$1.75.

Dwarf Hybrids

Most popular and probably the most valuable class of Petunias for bedding; combine fairly vigorous growth with dwarf, compact, free flowering habit. Many heaviest sellers are under this heading.

***Celestial Rose.** Introduced by us to the American trade, this variety immediately became the most popular deep rose for bedding. It improves Rose of Heaven in dwarf habit, color, and size.
Tr. pkt., 35c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00; 2 ozs., \$7.00.

***Celestial Rose Improved.** Extra dwarf compact strain with deeper, richer color than original. Ideal for pot and flat sales because of outstanding compactness; practically 100% true.
Tr. pkt., 50c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$10.00.



Petunia Grandiflora Fringed Lace Veil. An extra dwarf tree-flowering fringed pure white.

Adonis. Deep bright rose with white throat; small, free-flowering.
Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.35.

Alderman. Clear deep violet-blue; free-flowering, dwarf.
Tr. pkt., 35c; 1/4 oz., 60c; 1 oz., \$2.00.

Blue Bedder. (Sutton's). Fairly deep blue with some violet.
Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

Blue Bird. Deep velvet-blue.
Tr. pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.50.

Blue Perfection. Medium shade of dark blue.
Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.75.

Cockatoo. Violet-blue, irregularly marked white.
Tr. pkt., 35c; 1/8 oz., 75c; 1/4 oz., \$1.25.

***Commander.** White star on bright crimson. Quite compact with large flowers. Very effective for bedding.
Tr. pkt., 35c; 1/16 oz., 60c; 1/8 oz., \$1.00.

***Dwarf General Dadds.** (New). Distinctly dwarf growth, 12 in. or less. Same velvety rose-red as original. Excellent for bedding.
Tr. pkt., 35c; 1/4 oz., 90c; 1 oz., \$3.00.

Dwarf Howard's Star. About two-thirds height of regular stock, also differs in being a rich bright crimson with white star. Decided improvement and distinctly attractive for bedding.
Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.50.

***Heavenly Blue.** Reselected. Medium to light blue, a shade darker than Silvery Blue. Our strain of this is uniformly true to color; dwarf habit.
Tr. pkt., 50c; 1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$6.50.

***Narma.** Violet-blue, white star; extra choice dwarf bedding variety.
Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

Pink Pearl. (New). Fairly light rose-pink, medium size flower, uniformly dwarf compact growth. Another excellent bedder.
Tr. pkt., 50c; 1/8 oz., \$1.00.

Rose of Heaven. Well known rose-pink.
Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

***Rosy Marn.** Fairly deep rose with white throat.
Tr. pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.50.

Senator. Violet, white throat, fairly dwarf.
Tr. pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.50.

***Senator—Extra Dwarf.** Differs from above in being quite dwarf, and darker purple with white throat. A small extra dwarf blue Petunia.
Tr. pkt., 35c; 1/8 oz., 75c; 1/4 oz., \$1.40.

***Silver Blue.** A choice light or silvery blue dwarf, compact growth, and uniform in color.
Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$4.50.

***Snowball.** A fine uniform white for bedding.
Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.50.

Topaz Rose. (New). A brilliant golden rose with "topaz" gold throat. Fairly dwarf, quite free flowering, and an original color.
Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.75.

Twinkles. Small flowered, bright rose-starred white. Flowers freely produced and attractive. Fairly true to color and type.
Tr. pkt., 35c; 1/8 oz., 85c; 1/4 oz., \$1.50; 1 oz., \$5.00.

Vialacea. Dwarf rich violet.
Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.50.

Dwarf Hybrida Mixed. All colors.
Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

HYBRIDA—TALL

Not so dwarf or compact, this class makes fairly heavy growth with flowers fully as large as the Dwarf Hybrids. Some varieties, such as Rose King Improved, are larger than some of the Dwarf Hybrids. This low-priced class is well used for bedding, growing young stock in flats, combinations, or porch boxes.

***Alba.** Clear white.
Tr. pkt., 20c; 1/4 oz., 30c; 1 oz., \$1.00.

Blue Bee. Reselected stock. Violet-blue.
Tr. pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.50.

Carmen Sylva. Reselected stock. Violet, white throat, medium tall.
Tr. pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.50.

Countess of Ellsmere. Bright rose, white throat.
Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 75c.

FINE PETUNIAS—Continued

Flaming Velvet.

Tr. pkt., 25c; ¼ oz., \$1.25; 1 oz. \$4.00.

General Dadds. Velvety rose-red.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

*Howard's Star Improved. Medium tall velvety crimson with white star. Our strain of this comes fully 95 per cent true starred, unusually good for this variety. Most attractive for bedding.

Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

Inimitable. Carmine-rose striped white; small, but free flowering.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

*Lord Courtenay. (Golden Rose). Rich rose with gold throat.

Tr. pkt., 30c; ¼ oz., 50c; 1 oz., \$1.85.

*Rose King Improved. Fairly deep, clear rose-pink, about shade of Celestial Rose, but some taller and larger flowered.

Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.

Violet Gem. Deep violet.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Exquisite Mixed. All colors.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

VARIOUS TYPES

***Admiral.** This is the real dwarf (6 to 8 in.) beautiful blue Petunia we have been looking for. Flowers mid-blue, attractively ruffled and freely produced. Our stock of Admiral is direct from the originator, and in our trial ground this season came 99 per cent true. See Novelty List for further description.

Tr. pkt., 75c; 1/32 oz., \$1.75; 1/16 oz., \$3.00.

Martha Washington. Of dwarf, spreading, compact growth, making it ideal for bedding or edging. Medium size, slightly ruffled flowers of light blush color, with reddish purple throat. Excellent.

Tr. pkt., 50c; 1/32 oz., \$1.50.

MARIGOLDS

FOR CUTTING, for spring pot and combination work, as well as outdoor bedding, Marigolds are a staple florist item and their value is increasing annually as a result of intensive plant breeding by West Coast seed growers. There has been introduced a good many new varieties in the last two or three years, but each one has its points of superiority that gives it value for some special purpose. From a January sowing the Giant African and Carnation-flowered classes, especially planted close—4x4 in. in a shallow raised bed or flat—will pay their way in any market and will leave a little besides to help along big staple crops that all too frequently show up "red."

The Dwarf African and French classes from a January and February sowing make very satisfactory and colorful material for combinations, that sell in such quantities during the spring and early summer holidays. The new early and free flowering Floribunda class is especially adapted to this work. From a little later sowing and sold out of flats both the dwarf African and French classes are unsurpassed for bedding purposes where summer temperatures stay in the 70's and 80's. The variety Harmony is undoubtedly the outstanding one for trueness to dwarf compact habit and an attractive color. The Monarch strain, available in Golden Ball and an excellent mixture is also fine. Our Ball Red Book goes into considerable detail concerning cultural methods as well as descriptions of the various classes that should be of further interest.

GIANT AFRICAN CLASS

Large double flowers, fine for cutting. 10,000 seeds per ounce.

FISTULOSA. The quilled or tubular petaled kinds.

***All-Double Orange.** Not quite so full petaled as Prince of Orange, but percentage of doubles much higher, 85 to 90 per cent, with a few semi-double. We clearly prefer the All-Doubles for cutting.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.

***All-Double Lemon.** Same high percentage as All-Double Orange. We usually find demand for Lemon about one-third that for Orange.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50; 4 ozs., \$5.00.

All-Double Mixture. Mixture of above; predominately orange.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35; 4 ozs., \$4.00.

Prince of Orange. For perfect specimen flowers, the finest Giant African strain, but runs only about 60 per cent double and semi.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Lemon Queen Improved Strain. Bright lemon; same habit as Prince of Orange.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Golden Emblem. Bright gold; midway between orange and lemon; fairly true.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Rose Gem. Clear deep rose-pink, extra small flowers, very freely produced. Growth quite dwarf and well rounded. This is a choice type, particularly for edging, but we find growth somewhat weak where summers are hot.

Tr. pkt., 35c; ¼ oz. \$1.00.

Pink Gem. Identical to Rose Gem, but light pink color.

Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

Porviflora. Of very dwarf spreading or creeping habit, tiny flowers. Valuable cover plant for cemetery work, also for rock gardens or similar dry locations.

Tr. pkt., 25c; ¼ oz., 50c.

Diener's Varieties. Supplied in Diener's packets.

No. 1—Ruffled Manster Pink.

Tr. pkt., 50c.

No. 2—Ruffled Giant Flesh-Pink. With deep center.

Tr. pkt., 50c.

No. 5—Ruffled Monster Red.

Tr. pkt., 50c.

No. 8—Ruffled Monsters Mixed.

Tr. pkt., 50c; 1/64 oz., \$2.50.

No. 11—Ruffled Mansters, Blue. Semi-dwarf.

Tr. pkt., 25c.

No. 19—Giant Pink Glary. Improved Pink Glory.

Tr. pkt., 50c.

No. 20—Mauve Ruffled Manster Type.

Tr. pkt., 50c.

No. 22—Rose Color. Improved Rosy Morn.

Tr. pkt., 25c.

No. 47—Jumba Mixture. A select Giant Mixture.

Tr. pkt., \$1.00.



Marigold Harmony—one of the most valuable dwarf bedding varieties. Practically 100% true

Dwarf Little Giant. (New). Extra dwarf and compact, only 15 to 18 in. Flowers of large Fistulosa type, a few carnation-flowered; very freely produced. Valuable for pot culture or borders.

Tr. pkt., 35c; ¼ oz., \$1.25.

CARNATION-FLOWERED. The Imbricated type.

TALL. Valuable for cutting.

Guinea Gold. Attractive golden orange flowers, 2 to 3 in. and very freely produced. Excellent.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50; 4 ozs., \$5.00.

Yellow Supreme. Lemon-yellow, loose petaled flower. Similar to above in habit.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25; 4 ozs., \$4.00.

Gold. (New). Similar to Guinea Gold in color, but considerably earlier and odorless. Should be a distinct improvement.

Tr. pkt. of 200 seeds, 20c; 500 seeds, 80c.

Golden Eagle. Midway between Guinea Gold and Yellow Supreme in color, and a trifle larger flowered. Fairly true.

Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.75.

MARIGOLDS—Continued

DWARF. Excellent for borders. Freer and continuous flowering.

***Floribunda Orange.** (New). Same large flower and rich color as Guinea Gold, but extra dwarf, 12 to 15 in. tall. Unusually free and continuous blooming, even under our hot mid-western conditions. Fine for borders. (See cut below).
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Floribunda Mixed.** (New). Same valuable dwarf free flowering habit of above, but a mixture. Predominately orange with some gold and intermediate shades.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Note: Above two varieties a new type of particular value for bedding purposes, being especially free flowering throughout the summer in our trial grounds alongside of others that burnt out badly with the heat.

***Golden Crown.** (New). Rich golden yellow carnation-flowered type; extra free flowering. Quite outstanding for uniform dwarf habit and very rich coloring; excellent for low borders. See Novelty List.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Golden Queen. Bright golden yellow, quite dwarf in habit, about 15 to 18 in. when grown outdoors. Large, fully double imbricated or carnation-flowered type flowers freely produced. Nice for borders.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

MISCELLANEOUS LARGE FLOWERED.

Sunset Giants. The new giant flowered strain of Marigolds. We have often noted 7-in. flowers in California, or where conditions are at all favorable. Of carnation-flowered type, long-stemmed, and in a variety of shades from golden orange to lemon. Excellent for spring flowering in the greenhouse or for outdoors.

Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.80.

Chrysanthemum-Flowered Orange. (New). Strong orange. Real incurved form flower without collar petals. Fairly large and extra free flowering. Quite true, and distinctly new in type, and we believe will be excellent for forcing as well as for outdoor work. See Novelty List.

Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.50.

Chrysanthemum-Flowered Yellow. (New). Similar to above, but a clear golden yellow.

Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.50.

Chrysanthemum-Flowered Mixture. (New). Mixture of above with intermediate shades.

Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.80.

Dixie Sunshine. Medium size, bright yellow, full double ball-shaped or Chrysanthemum type of flower. Nice for cutting, but one of the latest flowering kinds on the list; occasionally too late for our early northern frosts. Excellent for southern states.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.



Seed crop of New Marigold "Floribunda" as grown for us in California

Crown of Gold. Clear yellow, flower type resembling Dixie Sunshine, but with a row of outer guard petals. Early flowering, good for spring greenhouse culture, but too weak where summers are hot. Odorless.

Tr. pkt., 25c; ¼ oz., 30c; 1 oz., \$1.00.

FRENCH MARIGOLDS

9,000 seeds per ounce.

DWARF SMALL FLOWERED. A most valuable class to flower in small pots for spring combinations. For this use, sow early in January and carry on in a warm house. Also, this class is largely used for bedding outdoors.

***Harmony.** Medium size scabious-like double flowers. Deep orange center with maroon-red outer petals. Quite striking and distinct. Valuable for cutting and bedding. See Novelty List and cut, page 11.

Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.25; 4 ozs., \$3.75.

***Royal Scot.** All-Double. (New). Showy, fully doubled flowers, nicely striped gold and mahogany. Quite uniform in color and habit; an excellent French Marigold.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.85.

Monarch Golden Ball. Fine golden orange. Monarch strains produce a high per cent of full petaled, tight double flowers. Finest in this color; 12 to 15 inches.

Tr. pkt., 20c; 1 oz., 65c.

***Monarch Strain Mixed.** A bright mixture of mahogany, orange, and yellow; same fine double flowers as Monarch Golden Ball. Flowers of this strain are more attractive than the Dwarf French Mixed that follows, but they are about 2 weeks later flowering. This should be remembered in sowing. 14 to 16 in.

Tr. pkt., 20c; 1 oz., 65c; 4 ozs., \$2.00.

Dwarf French Double Mixed. A very colorful mixture. Excellent for combinations or bedding.

Tr. pkt., 15c; 1 oz., 50c; 1 lb., \$4.50.

French Double Striped. Orange and yellow striped and a mixture of colors. Bright mixture and gets into flower early.

Tr. pkt., 20c; 1 oz., 75c.

Robert Beist. Extra deep rich mahogany-red, medium size, fully 80 per cent double. Fairly uniform in height.

Tr. pkt., 20c; 1 oz., 65c.

Electric Light. Double to semi-double, about the size of Legion of Honor. Attractive for bedding.

Tr. pkt., 20c; 1 oz., 65c.

Pallida. Double lemon or light yellow. Nearly 100 per cent double and uniform. 12 in.

Tr. pkt., 20c; 1 oz., 65c.

***Fire Cross.** Single; a light orange with mahogany-red center. Some earlier flowering than Legion of Honor, also color of petal tip some deeper. A valuable outdoor variety. 12 to 14 in.

Tr. pkt., 15c; 1 oz., 50c.

Legion of Honor. Well known dwarf single. The bright yellow in this variety contrasts brightly with the mahogany center. Both the above two dwarf singles are valuable for early flowering in small pots.

Tr. pkt., 15c; 1 oz., 50c.

TALL SMALL FLOWERED.

Double Scotch Gold Striped. Highly effective and true, but rather late flowering for early frost sections. 2½ ft.

Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

Single Josephine. Small, dark brown. 2 ft.

Tr. pkt., 15c; 1 oz., 50c.

WINTER FLOWERING.

Australian Giant Tree. Strong growth, fairly long-stemmed, mahogany-red flowers with golden yellow crest in center. Of high value for winter culture.

Tr. pkt., 25c; ½ oz., 60c; 1 oz., \$1.00.

Lieb's. Not so long-stemmed or heavy growth as above, but more uniformly double flowering. Some singles will show up in both strains.

Tr. pkt., 50c; ¼ oz., \$1.00.

Lieb's Winter Sunshine. (New). Golden orange with yellow center; similar to above.

Originator's pkts. only, 50c.

SIGNATA PUMILA.

Little Giant. Quite small, bright orange-scarlet flowers, very freely produced on dwarf, uniformly compact growth. Makes good material for borders.

Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.40.

Golden Ring. Somewhat taller than above, but withstands extreme heat and drought better.

Tr. pkt., 15c; ¼ oz., 35c; 1 oz., \$1.25.

Late or Summer SWEET PEAS

(350 seeds per ounce)

The Late or Summer-flowering class of Peas can be grown outdoors with profit in nearly every section of America—IF—

STARTED EARLY—WATERED THOROUGHLY WHEN DRY—AND KEPT CLEAN OF APHIS.

These are fundamental requirements. South of the Ohio River we have noted fall sown plants that got well established, winter over and do wonderfully well the following spring. We have for many years grown them profitably by sowing in the greenhouse in late January, carrying them along cold, and around March 1st potting 3 seedlings in a 3-in. pot. They make nice bushy plants by April 15th when we plant them out, protecting against frost with an inverted V-shaped covering made of two 6-in. wide boards. Around June 10th they get into a heavy crop and remain so until the heat of mid-July overtakes them. It is during June that they are really wanted, for the indoor stock is usually played out and the outdoor stock is hard and nice. The best plan of supporting is with wire and strings as usual, but we have noted a fair late June crop from an outdoor sowing made April 1st. The vines were unsupported, just let sprawl over the ground. Stems grow perfectly straight with this plan, but they will not flower nearly so freely as will the January start supported on strings.

Another quite valuable use for the Late class is to plant them with late started Earlies in the greenhouse. This can only be done with late or after 'Mum planted Earlies that flower in the spring and play out early in May, after which the Late class grows up and overwhelms them and flowers heavily, with long stems, well into June. For this purpose sow the Lates at the time the Earlies are sown and plant a Late seedling right in the row about 8 to 10 in. apart. They won't grow up with the Earlies but will break freely. Along in April they begin to crawl up, in no way interfering with the early growth until it begins to weaken. This plan won't work with the July or August started Earlies because they will be finished long before the Lates flower, which, in our section, is around May 1st. This "Late with the Early class" plan doesn't work in Canada because the cool climate permits the late sown Earlies to flourish through June. Neither will it do in Florida, for after their Earlies give out it gets too hot for any Peas. The reason for the Lates not flowering earlier or in mid-winter is that their growth is too strong and soft for the buds to form or hold until exposed to the high sun of April.

Starred (*) varieties we find the finest for cut flowers. These preferred varieties are corefully considered by us, for we realize the responsibility of suggesting them.

***Ambition.** Finest rosy-lavender.

***Ascat.** Pleasing light rose-pink; extra for stem length and flower size.

Austin Frederick Improved. Large rosy lavender.

Avolanche. Finest white-seeded white.



The above is from a photo made April 18th of our newly planted out Late or Summer Peas. We show it to picture our method of protecting them from frost or even a real freeze. The material is 6-in. cypress.

***Beatall.** Sparkling pink suffused salmon; fine stem and flower size.

Blanche Ferry. Rose and white bicolor.

Blue Bird. Fine clear blue.

***Blue Flame.** Deep bright blue.

***Bonnie Briar.** Very fine rose-pink for cutting. Somewhat stronger color than Pinkie.

Campfire. Deep sun-proof scarlet.

Chieftain. Rich satiny mauve-blue.

***Chinese Blue.** Bright strong blue; clearly the best late blue we have seen for strong growth and fine color.

Commander Gadsall. Deep violet-blue.

Constance Hinton. Black-seeded white.

Crimson King. Fine sun-proof crimson.

Debutante. Soft salmon shaded peach-pink.

Doreen. Large rich carmine.

Elfrida Pearson. Clear light pink.

Fiancee. Quite attractive soft salmon-pink on white ground.

Fluffy Ruffles. Soft cream-pink.

Giant White. Pure white.

***Gigantic.** Finest black-seeded white; extra large-flowered, and many duplexed.

Gleneogles. Clear even lavender.

Hawmark Lovender. Finest light lavender.

Hawmark Pink. Rose-pink shaded salmon.

***Headlight.** Fine sun-proof orange-scarlet; extra for stem and best in this color.

Heavenly Blue. Good Delphinium-blue.

Hebe. The finest large rose-pink.

Hercules. Standard deep rose-pink.

Hero. Cerise. Prefer Headlight.

***Lady Loch.** Light blush-pink, flushed salmon; extra large, and of cut-flower value.

Lady Ruffles. Large ruffled soft pink.

Loveliness. Silvery pink on cream ground.

Magnet. Improved Miss California.

Mory Pickford. Fine cream-salmon-pink.

Mastercream. Extra strong large black-seeded cream; many duplex.

Matchless. Deep cream.

Mavis. Prefer Headlight.

Miss California. Large salmon-rose.

Model. Good white.

Olympio. Deep purple.

***Pinkie.** Excellent commercial rose-pink; some heavier growth than Bonnie Briar.

***Pinnacle.** Deeper rose-pink than Pinkie; a fine commercial color.

***Powerscourt.** Finest lavender; strong growing and long-stemmed.

Royal Purple. Large rich purple.

Royal Scot. Sun-proof orange-scarlet.

Springtime. Nice light clear rose.

Supreme. Soft delicate pink.

The Clown. Crimson and white.

Warrior. Deep bronze-maroon.

***Welcome.** Deep brilliant sun-proof scarlet; fine.

Prices on all above standard varieties: 1 oz., 20c; 4 ozs., 60c; 1 lb., \$1.75.

Ball Florist's Mixture: 1 oz., 15c; 4 ozs., 50c; 1 lb., \$1.25; 5 lbs., \$5.00.

EARLY OR WINTER PEAS

January or February sowing
flowers in spring.

(350 seeds per ounce)

Don't overlook the value of this class for sowing late as Feb. 15th. This late sowing will, of course, not become strong enough to produce a heavy growth of very long stems. They will get into a nice crop for Mother's Day. Also, they should be planted closer; instead of the double rows we use in the earlier planting, we put three rows together for this late start. They require but about 4 to 5 ft. headroom. The Late class should be planted with this late planting of Earlies as suggested on the opposite page. Also, if used for outdoors they flower quite early, but their weaker growth makes them short lived, except where spring and early summer are cooler than with us. Another valuable use for the Earlies, we find, is to sow them out in a cloth house about June 1st. If watered and kept clean of aphids, this sowing will get into a heavy crop about Sept. 1st and continue until cut down by frost. This cloth house crop gets up 5 to 6 ft. with us and should be supported accordingly.



Gold Medal
Awarded Our
"Ball Orange"
Winter Sweet
Pea—
All Pure
Orange
Varieties Burn
Badly Outdoors

We have been specializing in Sweet Peas since the introduction of the Early class just 30 years ago. We have developed many new varieties, and we continue interested in this work, as well as testing in our greenhouses new kinds of all responsible raisers. Furthermore, our greenhouse experience as market growers of Sweet Peas gives us valuable information on varieties and culture that we gladly pass on to you.

PLEASE NOTE: All our Sweet Pea seed, Early and Late, is treated with Cuprocide or Red Copper Oxide, unless otherwise requested.

THE SEASON'S 12 BEST

Being extensive market growers of Peas, we are in a position to carefully compare the new with standard varieties each year. Our annual "Twelve Best" list of varieties is based on these trials, and we recommend them with confidence.

Boll Rose Improved. Deep bright rose, strong, free-flowering habit.
½ oz., 20c; 1 oz., 35c; 4 ozs., \$1.30; 1 lb., \$4.00.

Boll Orange Improved. Clear deep, glowing orange; the only early flowering pure orange.
½ oz., 30c; 1 oz., 50c; 4 ozs., \$1.75; 1 lb., \$6.00.

Boll White. Fine long-stemmed white; white-seeded.
½ oz., 25c; 1 oz., 40c; 4 ozs., \$1.50; 1 lb., \$5.00.

Bridesmaid. Delightful silvery-pink; new color and extra for size.
½ oz., 20c; 1 oz., 35c; 4 ozs., \$1.35; 1 lb., \$4.50.

Boon. Fine deep salmon-rose on cream ground; quite large flowered and fine.
½ oz., 20c; 1 oz., 35c; 4 ozs., \$1.35; 1 lb., \$4.50.

Harmony. The best commercial lavender.
½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.10; 1 lb., \$3.50.

Hope. Fine black-seeded white.

½ oz., 20c; 1 oz., 35c; 4 ozs., \$1.30; 1 lb., \$4.00.

Josie. Extra long-stemmed clear rose-pink.

½ oz., 20c; 1 oz., 35c; 4 ozs., \$1.30; 1 lb., \$4.00.

Mojeistic Rose. Fine large flowered, fairly strong rose-pink.

½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.10; 1 lb., \$3.50.

Mrs. Hoover. Best early blue; strong growing and large flowered.

½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.10; 1 lb., \$3.50.

Sequoia. Extra large fine salmon-rose; fine for spring.

½ oz., 20c; 1 oz., 35c; 4 ozs., \$1.30; 1 lb., \$4.00.

Triumph. Long-stemmed nice lilac-mauve.

½ oz., 20c; 1 oz., 35c; 4 ozs., \$1.30; 1 lb., \$4.00.

12 Best Mixture. Carefully balanced mixture of the above.

½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.10; 1 lb., \$3.50.

In ordering Sweet Pea seed don't forget that there are two distinct classes, Early or Winter-flowering and Late or Summer flowering. **State which is wanted.** If you are not familiar with the best kinds and wish us to make selections for you, we shall gladly do so.

The following novelties stood out as exceptionally good in our trials last winter, and we believe you will find them worth becoming acquainted with.

Dophne. (New). Originator's description: "Soft salmon-pink on deep cream ground. Strong grower, free and large-flowering."

½ oz., 80c; 1 oz., \$1.50; 4 ozs., \$5.00.

Princess Blue. (New). Very good, even Belladonna-blue; excellent for stem and growth.

½ oz., 75c; 1 oz., \$1.25; 4 ozs., \$4.00.

Sensation. (New). Clear, luminous geranium-pink; duplex petals.

½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.75; 1 lb., \$6.50.

Sun-proof Orange. (New). Gets its sun-proof orange color from having a bit of scarlet-cerise shading. Fine stem and habit.

½ oz., 30c; 1 oz., 50c; 4 ozs., \$1.70; 1 lb., \$6.00.

Tohoo. (New). Fine deep blue; extra strong growth almost intermediate in habit.

½ oz., 75c; 1 oz., \$1.25; 4 ozs., \$4.00.

GENERAL LIST OF EARLY PEAS (Except 12 Best)

Stored (*) varieties are our choice of preferred cut-flower kinds.

American Beauty. Extra large, long-stemmed American Beauty rose.

Amethyst. Rich bright purple.

Annie Laurie. Bright shade of rose-pink; medium size.

***Apollo.** Salmon-cerise, long-stemmed. Fine for spring.

Attraction. Rich salmon-rose; long-stemmed.

***Aurora.** Orange-scarlet striped. Novelty color.

Ball Blue. Mid-blue; extra free-flowering, but not long-stemmed.

***Ball Orange.** The standard clear deep orange.

Ball Rose Queen. Extra long-stemmed rose-pink.

Blue Bird. Mrs. Hoover better.

Bright Light. Vivid orange-scarlet.

Cattleya. Rosy-lilac; Triumph better.

Chevalier. Dark rose.

Columbia. Pink and white bicolor.

***Eileen.** Rich deep pink, large and long-stemmed.

Eldorado. Light orange.

***Eleanor Blue.** Light blue intermediate; fine for spring flowering.

Fascination. Attractive cream-pink.

Flamingo. Orange-salmon; long-stemmed.

Fragrance. Rosy lavender; prefer Harmony.

Giant Rose. Well named, but not long-stemmed.

Glitters. Pride much better.

Greeting. Lavender.

Grenadier. Poppy-scarlet; rather heavy.

Harlequin. Chocolate striped; attractive novelty color.

***Heather Bell.** Rosy-lavender; medium size but free-flowering.

***Indigo Blue.** Dark shade of clear blue.

***Jeanne Mamitsch.** Clear rose, long stems.

Laddie Improved. Extra long-stemmed rose; large.

Lavanda. Lavender.

Louise Gude. Bright rose; medium size.

Maraan Prince. Dark maroon; rather heavy.

Michigan. Large lavender.

***Mrs. Holscher.** Very good rose-pink.

Mrs. Kerr. Salmon.

Oriental. Black-seeded cream.

Pink Profusion. Rose-pink.

***Pride.** Extra long-stemmed brilliant cerise.

***Prosperity.** Soft glowing rose-cream.

Red Bird. Crimson-red.

Snowstorm. Prefer black-seeded whites; medium size.

Springsong. Salmon-pink; medium stem.

***Success.** Extra bright deep rose-pink.

***Sunray.** Light cerise; fine long-stemmed.

Susanna. Rather heavy; carmine-red.

Torch. Orange-salmon.

Vogue. Light bluish lavender.

Vulcan. Prefer early Bright Light.

***White Harmony.** Extra long-stemmed black-seeded.

Zvolanek's Rose. Laddie much better.

Ball Early Mixture. A combination of above colors, including a large proportion of the standard kinds.

Any above priced at: ½ oz., 20c; 1 oz., 30c; 4 ozs., \$1.00; 1 lb., \$3.50.

BALL CALENDULA

(3,000 seeds per ounce)

A January or early February sowing of Calendula will make a nice crop for Easter of this year and Mother's Day. They will continue flowering heavily until overcome by hot weather. No flowers are more colorful or carry out a spring atmosphere than Ball Calendula, and no trouble with the flowers wilting at this season.

Also, except in high temperatures, Calendula have value for outdoor cutting. Like most summer flowers they enjoy the protection of a cloth house.

Why They Come Single. Under favorable growing conditions our strains of Ball Calendula are fully 99% double. The very few real singles are small and flower quite early. They are worthless and should be removed. Unfavorable conditions that cause double flowering plants to produce singles are: too much heat, poor soil, lack of enough water, or aphids drawing the life out of them. The check to the growth of cutting off a heavy crop will account for the singles that show up rather freely at the finish of a crop.

For bedding purposes the compact growing varieties listed for this purpose, should be used.

Our position with respect to the Ball Calendula is due to having originated all varieties in this superior cut-flower class. Also to our continued interest in improving them.

***Ball Improved Long Orange.** (New). A new extra fine long-stemmed orange; a real improvement in stem length, flower size, and heavier growth.

***Boll Masterpiece.** Long-stemmed clear deep orange and attractive dark eye.

Boll Long Orange. Long-stemmed clear orange with light center; excellent.

Boll Sensation. Similar to Long Orange, but preferred by some.

Boll Supreme. Light orange with rich dark centers; free-flowering.

Boll Gold. Extra long-stemmed, large golden yellow.

***Boll Lemon Queen.** Intense lemon-yellow with dark brown eye.

Boll Apricot. Pale golden brown or straw color with attractive deep eye. Free-flowering.

Prices on each of the above Boll Calendula:

Tr. pkt., 40c; ¼ oz., 60c; 1 oz., \$2.00; 2 ozs., \$3.50; 4 ozs., \$6.50; 1 lb., \$20.00.

CALENDULA FOR BEDDING

Compact growing varieties not suitable for cutting because short-stemmed, but highly attractive for bedding except during very hot weather.

Orange Shaggy. Petal tips of this bright orange variety are finely fringed and cut, giving it a quite distinctive appearance.

Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

Apricot Queen. Buff or apricot petals attractively tipped bright orange; dark eye. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.10.

Sunshine. (Chrysanth). Bright yellow, semi-double; upright growth with good stems.

Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.



Our Christmas Crop of Ball Calendula

Ball Mixture. A mixture of the above with fully half orange. Intended for the retail grower whose planting is limited, but wants some of all colors.

Ball Art Shades Mixture. (New). Made up of attractive variations and shades, some being new in Calendulas and difficult to get true. A pleasing mixture of light colors.

Price on both above mixtures:

Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.75.

Please note: Our strains of Ball Calendula are to be had in our sealed packets only.

Prices on weight lots will be accepted on two or more varieties together. For instance, on ¼ oz. each of four varieties instead of allowing 60c each or \$2.40 for the four lots, the ounce price of \$2.00 will be accepted.

Frilled Beauty. New deep orange, attractively frilled flowers.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Prices on the following, each: Tr. pkt., 20c; 1 oz., 50c; 2 ozs., \$1.00; 4 ozs., \$1.75; 1 lb., \$5.75.

Radio Bright Orange. Quilled petals, quite attractive.

Radio Golden Beam. Clear yellow Radio type.

Orange King. Dark centered deep orange; for bedding.

Lemon Queen. Light lemon-yellow. Somewhat straggly growth.

Nankeen. Cream-flushed apricot, small flowered and dwarf.

***Ball Bedding Mixture.** Well proportioned mixture of all dwarf bedding varieties. Tr. pkt., 15c; 1 oz., 80c; 4 ozs., \$2.50.

STOCKS

Sow January and up to February 15 for May and June crop. When sown later they come blind in our latitude.

Stocks are at their very best when flowered during the long bright days of spring. When sown Feb. 1st, but 4 months are required to flower them; 5 to 5½ months of mid-winter weather is necessary. Also, wilting of the cut flowers, occasionally complained of, is entirely overcome because of the hardening effect of the stronger sun in spring. Also, this late planting can be made on deep ground beds with perfect safety. If soil for the preceding crop was sterilized or changed, chances are it will be all right for Stocks. Have the soil fairly well enriched before planting. About twice during their growth we top dress lightly with a concentrated, balanced fertilizer. You will find that our **Ball Red Book** (20c) covers the details of growing Stocks. Also, our **Grower Talks** will keep you posted on sowing dates.

OUR Non - Branching STRAIN

(15,000 seeds per ounce)

We devote three-quarters of our entire greenhouse plant to the improvement of this supremely fine class. We don't make much headway increasing the proportion of doubles. This seems more or less definitely fixed, but we have worked out additional and valuable cut-flower colors that will be found in the following list. Also note, we will have a greatly improved Non-Branching White to offer this season. This will be ready late July. It will be known as Ball White Improved. It is snow-white, with the same closely set flower spike that we have in our Ball White slightly shaded rose. While we have planned for an ample supply of this seed, we suggest placing orders at once.

Please order by number and name to avoid possible error.

No. 1—Lilac Lovender. Most valuable cut-flower color in any market. Medium long-stemmed and fairly early flowering. Around 65% double.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 3—Ball Blue. Dark lilac-blue. Selected by us from Lilac-Lavender. Has the same habit and percentage of doubles. We find this an excellent market color.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 14—Ball Rose-Pink. (New). This is a deeper shade of rose-pink than our No. 11 Ball Pink and requires about 10 days longer to mature. A very attractive pink.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 11—Boll Pink. (New). Light rose-pink, exact shade of Bismarck Rose. Long-stemmed with flowers well placed on the stem. A pleasing new color in the Non-Branching class.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 2—Boll White. (Tinged). We are entirely sold out of this original long-stemmed Ball White. We will have a limited supply from new crop around Aug. 1st. For the present we suggest the use of our No. 2 Medium Tall, that is not quite so long-stemmed but enough so for cutting. Also our Snowbank (No. 12) is a clear white with flowers not so closely placed on the stem.

½ tr. pkt., 60c; tr. pkt., \$1.00.

No. 2—Boll White Medium Toll. Our selection from our regular Ball White that is sometimes unnecessarily long-stemmed. This selection is 10 to 12 in. shorter, plenty long enough for most cut-flower purposes, especially if grown on deep beds.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 15—Boll White Improved. (New). Large paper-white flowers, closely placed on long stems. Orders booked for delivery around August 1st of this year.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 4—Boll White Dwarf. With us this becomes 20 to 24 inches tall in deep ground beds. Easily handled in flats.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.



Pictured our Improved Strain of Ball White Non-Branching Stocks. This is extra large flowered, paper-white, and will be released during 1938.



Medal Awarded "Ball Stocks"
S. A. F. National Show, 1931

No. 5—Ball White Extra Dwarf. Suitable for pot plant growing only.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25.

No. 12—Snowbank. Pure snow white, fairly long-stemmed. Flowers not closely spaced when flowered during winter, but for spring-flowering this variety is excellent. We suggest this as our best white for spring flowering.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 6—American Beauty. True deep American Beauty rose, fairly long-stemmed. While this is a rich color, it is rather heavy to grow in quantity for cutting.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 7—Malmaison Pink. Extra long-stemmed light shell-pink. A pleasing light color.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 8—Ruby. Rich crimson-red and long-stemmed. Outstanding variety in this color, that is not wanted in quantity.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 13—Illusion. Bright red; similar to Ruby but not quite so tall.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 9—Chamois-Pink. Apricot or chamois-pink, fairly long-stemmed.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

No. 10—Ball Non-Branching Mixture. All colors will be found in this mixture, that should be desirable where a limited number of all colors is wanted.

½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$2.25; 1 oz., \$8.00.

BRANCHING STOCKS

(17,000 seeds per ounce)

A retail grower's planting of Stocks should be made up at least half of the branching type; shorter stemmed but more of them. Also, the proportion of doubles averages some higher than the Non-Branching. The Branching class is usually spaced about 6x6. When 8 inches high, they are topped back about one-third. Another good plan is to let them go until buds are formed, and the singles removed when they can be distinguished, then top the remaining doubles. Under favorable growing conditions the remaining doubles will, after being topped, well fill out the empty spaces made by removing singles. Another way of growing the Branching kinds is to space them close, as suggested for the Non-Branching. This spacing runs them up to single stems, with little branching except near the top where exposure to light causes them to break. If these breaks are removed, a fairly good grade of non-branching, long-stemmed flowers will result, but the Non-Branching class is distinctly better for long-stemmed flowers.

Among the Branching kinds the Bismarcks are distinctly superior, most varieties being fairly early and a good proportion of doubles. California growers are developing an improved strain of Bismarcks known as Super Giants or California Giants. These strains are of extra strong growth. Santa Maria and Shasta, that are practically identical, are typical examples of this class.

GIANTS OF CALIFORNIA OR SUPER GIANTS

Stars (*) indicote varieties we find superior.

The past spring we flowered trials of all varieties offered in this class. We found the following four varieties quite outstanding.

Pacific. Large rich, fairly dark blue with extra strong growth and stem.

Yosemite. About the shade of Bismarck rose; a strong clear color with an extra strong growth.

Santo Moria. Introduced several years ago and generally accepted as the best branching clear white.

Roselight. About the shade of Bismarck Rose. We find little difference between this and Yosemite, but it is so fine we feel it should be listed for the difference it might show under other conditions.

Prices above four varieties: Each, tr. pkt., 35c; ¼ oz., \$1.15; 1 oz. \$4.00.

Mixture: Tr. pkt., 25c; ¼ oz., 90c; 1 oz., \$3.50.

IMPROVED BISMARCKS

Antique Copper. Fine copper-red.

Apple Blossom. Light pink.

Blood-Red.

Buttercup. Deep yellow. Strong growth.

***Chamois.** Choice market color.

***Elk's Pride.** Rich deep purple.

Flesh. Delicate shade of pink.

***Golden Ball.** Clear ivory-yellow.

Golden Rose.

***Lovender.** A standard color.

***Lilac.** Lilac-lavender.

***Rose.** Fine standard color.

Shasta. New giant white.

White. Early; clear white.

Prices each: Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

Mixed. All colors. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

PERPETUAL BRANCHING (Giant Perfection)

***Empress Augusta Victorio.** Silver-lilac and very fine.

***Heatham Beauty.** Terra-cotta-rose; very fine.

Prices each: Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Mixed. All colors. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

BEAUTY OF NICE

***Auroro.** Golden buff; fine.

Beauty of Nice. Flesh-pink.

***Cote d'Azure.** Light or lavender-blue.

***Monte Carlo.** Rich canary-yellow.

Mont Blanc. White.

***Queen Alexandra.** Rosy lilac; fine.

Prices each: Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Mixed. All colors. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.



TEN WEEK

This class is of compact branching habit, and excellent for pot plants.

Blood-Red.

Canary-Yellow.

Carmine-Pink.

Deep Rose.

Lavender.

Purple.

White.

Prices each: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Mixed. All colors. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

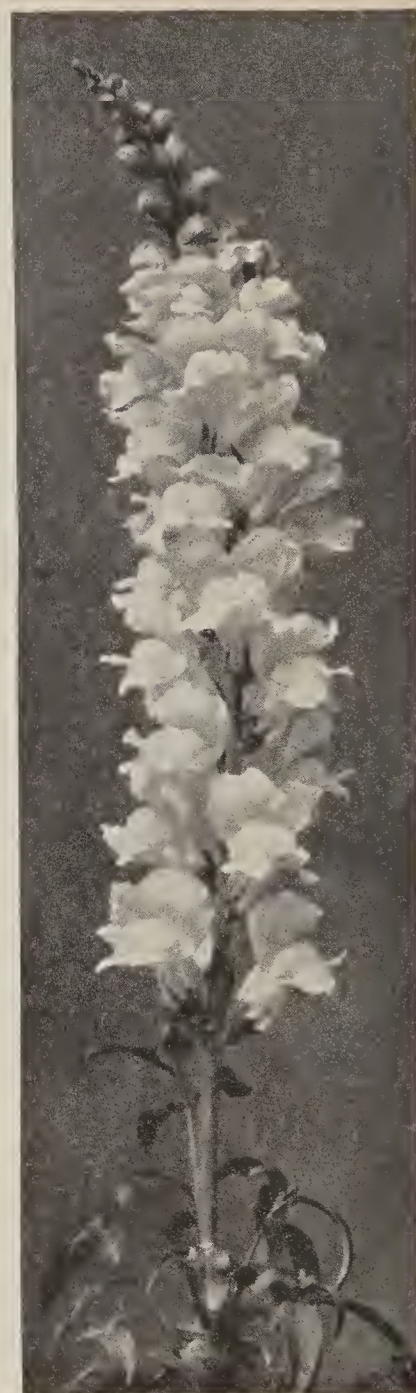
Forcing or Winter Snapdragons

Our seed of all forcing varieties is produced by us in our greenhouses, except Novelties in introducer's packets.

We find it necessary to produce our own seed; in this way we insure trueness to color and seed that will grow. A flowering test of every lot of this seed we send out has been made by us (except Novelties in introducer's packets). We, of course, keep close check on germination, and we guarantee our trade packets to produce 500 to 1000 seedlings or more if sown and looked after with reasonable care. Detailed suggestions of our method of sowing enclosed with every packet of seed we send you.

Sow Early. If wanted for early sowing, or early winter-flowering, May and June sowing is best and more certain of germination than under hot or midsummer conditions, that are very unfavorable for germination.

	Tr. pkt.	3 pkts.	5 pkts.
* Afterglow. Fine golden orange. Best in this color	\$1.00	\$2.50	\$3.50
Bertha Baur. Medium light lavender. Orchid is better	1.00	2.50	3.50
Caprar. Long-stemmed pure white. Best for spring flowering	1.50	4.00	6.50
Celestial. Fairly deep long-stemmed canary-yellow	1.50	4.00	6.50
Ceylon Court. Standard early yellow. Free-flowering, medium tall	1.00	2.50	3.50
* Ceylon Court Dark. A selection from above for deeper color	1.00	2.50	3.50
* Cheviot Maid Supreme. Finest fairly deep rose for any season; medium tall, free-flowering	1.00	2.50	3.50
Cheviot Maid White. Good even white for early	1.00	2.50	3.50
Cheviot Maid Yellow. Same as above except in color	1.00	2.50	3.50
* Coates' Yellow Perfection. Finest strong growing golden yellow for spring	1.00	2.50	3.50
* Doybreak. Strong growing light rose-pink. Fine for spring or winter	1.50	4.00	6.50
Golden Pink Queen. A fairly deep pink with golden lip	1.00	2.50	3.50
La France. (New). La France rose-pink. Varies	2.00		
Lucky Strike. Standard white for spring or winter flowering	1.00	2.50	3.50
Marian. Preferred by many growers; white	1.50		
* Miss Waaster. We find this the finest early golden bronze. Fine for spring	1.50	4.00	6.50
Kirkwood Beauty. Bronzy orange	1.00	2.50	3.50
* New Cincinnati. Fine fairly light rose, especially valuable for early	1.00	2.50	3.50
New Deal. Short-stemmed, early light bronze	1.00	2.50	3.50
* Orchid (New—Schrock). We find this the finest orchid-lavender	2.00	5.00	
Radiance. Large flowered pink. Early flowering	1.00	2.50	3.50
Raman Gold. Bright coppery yellow	1.00	2.50	3.50
* Rose Queen. Finest deep bright rose for spring or mid-winter	1.00	2.50	3.50
* Early Sunlite (Improved New Deal). Finest extra early golden bronze	1.00	2.50	3.50
Sun Tan. Standard orange-tan; early flowering	1.00	2.50	3.50
Terry's Surprise. A rich combination of orange-shaded rose. Strong grower and fine for spring	1.00	2.50	3.50
* Velvet Beauty. Fine for spring flowering. Deep bright crimson-red	1.00	2.50	3.50
Westaver's Fringed White. We do not find this very early flowering	2.50		
White Prosperity	1.50	4.00	6.50
White Rack .....	.50	1.25	
* White Wonder (New—Bezdek). The best pure white, early flowering	2.00	5.00	
* Windmill's Cheviot Supreme (New). Very uniform fairly deep rose-pink			
1/2 tr. pkt., (1000 seeds), \$1.25; tr. pkt., (2000 seeds), \$2.00.			
Winter Helen. Improved Helen	1.00	2.50	3.50
Ball Forcing Mixture. Our own mixture of standard varieties containing only standard cut-flower colors. Fully half Rose Queen and Cheviot Maid Supreme, with balance in yellow, white, and bronze .....	.75		



New Cincinnati. Extra large flowers, light rose-pink color, long stem.

Rust-Resistant Snapdragons (Not Winter Flowering)

In our West Chicago trial lines the past season, of all Rust-Proof varieties we offered, every one remained clean through the season with the single exception of a new European variety known as White Spire. This was entirely destroyed by midsummer alongside all others that kept clean. This was most encouraging proof of the value of the following new strains. However, in some sections of California these strains did not fare so well, apparently being hit by a new form of rust. But the experience of most growers in the middle west and south has been favorable with these strains. Also, it should be noted that much crossing with original or rust-proof strains was necessary to produce them; and for this reason some will not be found true to color as they will be with a few more season's work on them. Behavior of each of the following in this respect will be noted and is based on our trials of the past season.

- ***Alaska.** Maximum. The finest long-stemmed white for cutting. Large flowered and good true color.
Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.
- Buttercup.** Majus Grandiflorum. Very good butter-yellow for cutting. Quite true. Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.
- Campfire.** Maximum. Bright wallflower-red. Fairly true. Good cut-flower variety.
Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.

- Canary Bird.** Majus Grandiflorum. Long-stemmed, medium large flowered, fairly deep yellow.
Tr. pkt., 30c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.
- Dainty.** Super Majestic. Large flowered and good true stock. Attractive light cream-pink.
Tr. pkt., 35c; 1/8 oz., 85c; 1/4 oz., \$1.50; 1 oz., \$5.00.

RUST-RESISTANT SNAPDRAGONS — Continued

Defiance. *Majus Grandiflorum*. Attractive shades of scarlet and wallflower-red.
Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.

Fair Lady. *Maximum*. Light pink with white throat. Shady. Long-stemmed for cutting.
Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.

Golden Orange. *Nanum*. Attractive golden orange. Quite true. Dwarf and compact for bedding.
Tr. pkt., 30c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.

Indian Girl. *Nanum*. Dwarf crimson for bedding. Shady.
Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.

***Light Sa'man-Pink.** *Nanum*. Rose-pink shade of New Cincinnati in the earlies. Finest pink for bedding. Very true.
Tr. pkts. only, 30c.

***Loveliness.** *Maximum*. Light pink, color of Jennie Schneider. Shady. Long-stemmed for cutting.
Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.

Maximum White. *Maximum*. Fine long-stemmed white. Quite true.
Tr. pkt., 30c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.

***Opal Queen.** *Majus Grandiflorum*. Highly attractive mixture of salmon and apricot-pink shades. Long-stemmed for cutting.
Tr. pkt., 40c; 1/8 oz., \$1.00; 1/4 oz., \$1.75; 1 oz., \$6.00.

Orange-Pink. *Nanum*. About Suntan shade. Dwarf and compact for bedding. Quite true.
Tr. pkt., 30c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1 oz., \$4.00.

***Pinkie.** *Majus Grandiflorum*. Finest rose-pink for cutting. About Cheviot Maid Supreme color. Quite true.
Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.

Wallflower-Red. *Majus Grandiflorum*. True wallflower-red shade. Varies slightly. Long-stemmed for cutting.
Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.

Wildfire. *Nanum*. Bright reddish bronze with yellow lip. Quite true. Fairly dwarf.
Tr. pkt., 25c; 1/8 oz., 45c; 1/4 oz., 80c; 1 oz., \$3.00.

***University of California Mixture.** A well-blended mixture of long-stemmed types for cutting. Very attractive and bright mixture.
Tr. pkt., 20c; 1/4 oz., 50c; 1 oz., \$1.75.

***Ball Rust-Resistant Mixture.** A very bright and attractive mixture of our own, not quite as long-stemmed as above. Suitable either for short-stemmed cut-flower work or bedding.
Tr. pkt., 20c; 1/4 oz., 50c; 1 oz., \$1.75.

REGULAR OUTDOOR VARIETIES (Not Rust-Resistant)

The following list comprises varieties used primarily for outdoor bedding and cutting. Except as noted, they are not rust-resistant and are not, of course, winter-flowering. The *Maximum* and *Majus* varieties are for cutting; the *Majestics* and *Nanums* are shorter stemmed for bedding, but have some cut-flower value.

MAXIMUM. Longest stemmed and large-flowered. A cut-flower type.

Apple Blossam. Rose-pink with white throat.

***Canary Bird.** (Rust-Resistant). Canary-yellow.

Cattleya. Orchid-lavender.

Copper King. (Rust-Resistant). Deep velvety copper shade.

Orchid. Bright lavender.

***Ruby.** Rich velvety red.

Snowflake. White with slight yellow lip.

***The Rose.** Deep rose-pink.

Mixture. (Rust-Resistant). Of all colors in this class.

Prices on above Maximum varieties:

Each: Tr. pkt., 15c; 1/4 oz., 35c; 1 oz., \$1.25.

MAJUS GRANDIFLORUM. Fairly tall and large-flowered. A good cut-flower type.

***Engarde.** Coral-pink and amber. Fine long-stemmed variety especially for outdoors.

Hormany. Terra-cotta-rose, yellow-shaded center.

Prices on above 2 varieties: Each, tr. pkt., 15c; 1/4 oz., 35c.

MAJESTIC. Extra large-flowered. Because of fairly dwarf growth, usually used for bedding but can be used for cutting indoors during the spring if planted close and run up single-stemmed. A fine class.

***Evensong.** Large-flowered shade of buff-pink.

Fair Lady. Fairly light rose-pink.

***Golden Dawn.** Fairly light golden-orange.

Orange King. Deeper than above. About an Afterglow shade.

***Rose Beauty.** Fairly deep pink. Nice color.

***Twilight.** Deep golden yellow with some buff shading.

Mixture of all colors in this class.

Prices on above Majestic varieties, each:

Tr. pkt., 50c; 1/8 oz., 80c; 1/4 oz., \$1.40.

NANUM GRANDIFLORUM. Medium dwarf type used for bedding.

***Climax.** Orange shading to gold.

Empress. Rich velvety crimson.

Fawn. Terra-cotta shade.

***Flame.** Fiery bright scarlet.

***Glaria.** Good deep rose-pink.

***Golden Queen.** Rich golden-yellow.

His Excellency. Brilliant orange-scarlet.

Purity. A good white.

Mixture. (Rust-Resistant). Of all colors in this dwarf class.

Prices on above Nanum Grandiflorum Varieties:

Each: Tr. pkt., 15c; 1/4 oz., 35c; 1 oz., \$1.15.

TOM THUMB. Extra dwarf for low bedding work or pots only.

Mixture of all colors in this extra dwarf class.

Tr. pkt., 20c; 1/4 oz., 40c.



Rust-Resistant type as grown in California shows the possibilities of Snapdragons for outdoor growing. We have noted these varieties wintered over outdoors about Philadelphia with the protection of straw covering.

FLORIST'S ZINNIAS

Wherever summers are warm Zinnias have florist value. They must have a fair amount of warmth, for they are natives of Mexico and will turn yellow and rot out in a low temperature. This temperature requirement is particularly true of seed germination that must be done in at least 60°. If sown in a cold, wet soil, it will rot. Don't overlook this.

By sowing around March 1st, Zinnias can be flowered to perfection around the end of May in a Carnation house. The outdoor crop should be sown direct where they are to flower as soon as soil is settled warm, which is early June with us. By sowing outdoors late as Aug. 1st in well enriched soil and watered when dry, they will flower freely from early September until frost. To bring out their fine color and size calls for long sunny days. For this reason they are not profitable as a mid-winter greenhouse crop. Don't overlook the margin in growing Zinnia seedlings for home gardeners. They are liable to become drawn and hardened in pots; better and more easily grown by broadcasting in flats or an open bed.

DAHLIA-FLOWERED CLASS (2500 seeds per ounce). Generally accepted as the finest of the Giants. They improve the Giant Mammoth in being more incurved and rounded, although not entirely true to this type.

- | | | |
|--|--|---|
| Canary Bird. A rich primrose-yellow. | *Golden Down. Golden yellow, dark center. | *Oriole. Orange and gold; excellent. |
| Crimson Monorch. Large crimson-red. | Golden Stote. Rich orange-yellow. | Polar Bear. Large white. |
| Dream. A fine deep lavender. | Illumination. Deep rose-pink. | Purple Prince. Large deep purple. |
| Eldorado. Salmon-apricot. | Metear. Clear deep amaranth-rose. | Scarlet Flame. Well named, bright scarlet. |
| *Exquisite. Fairly deep rose. Valuable for cutting. | Old Rose. Real old rose color. | |

Prices, separate colors: Each, tr. pkt., 25c; ¼ oz., 35c; ½ oz., 60c; 1 oz., \$1.00; 1 lb., \$12.00.

SPECIAL OFFER: One trade packet each of above 14 varieties for \$2.75.
One trade packet each of **only ten** above varieties for \$2.00.

***GOLD MEDAL MIXED.** Best Giant Dahlia-flowered Mixture available. Tr. pkt., 25c; ¼ oz., 35c; ½ oz., 60c; 1 oz., \$1.00; 1 lb., \$12.00.

GIANT MAMMOTH TYPE. General effect quite similar to Dahlia-flowered. Somewhat larger flowered, but flowers not quite so well rounded.

- Brightness.** Bright clear pink.
- Cerise Queen.** Choice orange-rose.
- Daffadil Improved.** Bright canary-yellow.
- Golden Queen.** Deep intense gold.
- Grenadier.** Bright dark red.
- Lavender Queen.** Bright rosy lavender.
- Miss Willmott.** Medium light soft pink.
- Orange King.** Similar in color to our Ball Orange Calendula.
- Pink Profusion.** Light pink shade, some lighter than Miss Willmott.
- Purity.** A very good clean white.
- Rose Queen.** Deep bright rose; brighter than Brightness.
- Scarlet Queen.** Glowing bright scarlet.
- Violet Queen.** Deep purple.

PRICES, separate colors, each:

Tr. pkt., 25c; ¼ oz., 35c; ½ oz., 60c; 1 oz., \$1.00; 1 lb., \$12.00.

SPECIAL OFFER: One trade packet each of the above 13 varieties for \$2.55.

MIXED. A mixture of all Giant Mammoth types. Tr. pkt., 15c; ¼ oz., 30c; ½ oz., 50c; 1 oz., 85c; 1 lb., \$10.00.

PUMILA TYPE (Cut-and-Come-Again). Of medium size and fairly compact growth. Excellent for either bedding or cut-flowers. We feel that this class should be more largely used, particularly for cutting under glass or cloth.

- Canary-Yellow.**
- Fire Ball.** Very bright scarlet.
- *Salmon-Rose.** Extra choice for cut-flowers.
- Golden Orange.**

Each, separate colors: Tr. pkt., 15c; 1 oz., 60c.

Mixed, all colors: Tr. pkt., 15c; 1 oz., 50c.

COLOSSAL or NEW GIANTS. This class is so clearly inferior to either the Mammoth or Dahlia-flowered class that we no longer list them except in **mixture**.
Tr. pkt., 15c; 1 oz., 60c; 1 lb., \$6.00.

LILLIPUT or POM-PON CLASS. (4300 seeds per ounce). Flowers about size of a large button-type Pompon 'Mum. Highly effective for cut-flower work, especially nice when the stems are lengthened under glass or cloth houses.

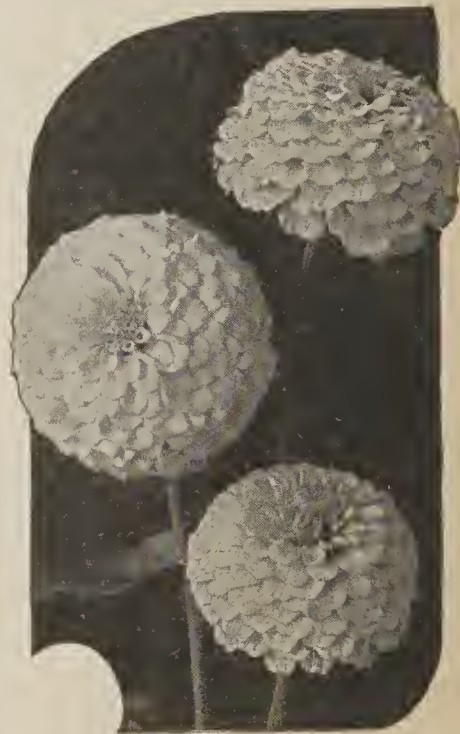
- Canary Gem.**
- Crimson Gem.**
- Golden Gem.**
- Lilac Gem.** Clear even lavender.
- Pink Gem.**
- Purple Gem.**
- *Rosebud.** Clear deep rose-pink.
- *Salmon Gem.**
- Scarlet Gem.**
- *Valencia.** Attractive burnt-orange.
- White Gem.**

EACH, separate colors:
Tr. pkt., 15c; ¼ oz., 30c; ½ oz., 50c; 1 oz., 85c; 1 lb., \$9.00. (Combination of varieties to make up pound, at lb. rate.)

MIXED, all colors: Tr. pkt., 15c; ½ oz., 40c; 1 oz., 65c; 1 lb., \$8.00.

SPECIAL OFFER:

Tr. pkt. of each of the 11 Lilliput varieties for \$1.35.



Zinnia Lilliput, Rosebud

This neat little Pompon type is, we believe, the most valuable one for cut-flower work. Either cloth or greenhouse protection is necessary to draw out the stems. Such protection seems to reduce the size of the Giants while it increases some that of the Pompons.

FLORIST'S ZINNIAS—Continued

PICOTEE DELIGHT TYPE A fairly tall growth and attractive flower formation, curled or ruffled petals, make this class well suited to cut-flower uses. Comes fairly true to flower type.

Golden Ray. Golden orange with brick-red markings.

Tr. pkt., 30c; ¼ oz., 45c; 1 oz., \$1.50.

Salmon-Rose. Attractively shaded light to dark salmon-pink.

Tr. pkt., 30c; ¼ oz., 45c; 1 oz., \$1.50.

MIXED. A good mixture.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

CROWN O' GOLD TYPE A distinctive class, base of each petal shaded light or yellow while carrying out the individual flower color from the base coloring to the tip.

***Desert Gold.** A highly attractive yellow, the light and darker shading contrasting effectively.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

MIXED. An attractive mixture of cut-flower colors.

Tr. pkt., 25c; ¼ oz., 35c; 1 oz., \$1.00.

VARIOUS TYPES

Fantasy, Star Dust. Rich deep golden yellow with attractively curled and interlaced petals.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Fantasy, Mixed. Same loosely curled and interlaced petal formation that gets away from the stiff formality of the regular class. Attractive for cutting. Come in pleasing mixture of colors; fairly true to type.

Tr. pkt., 25c; ¼ oz., 35c; 1 oz., \$1.00.

Early Wonder. Salmon-cerise-pink. Of medium size, fairly long-stemmed. Outstanding point is early flowering—6 to 7 weeks from sowing. With this habit necessarily goes lack of strong growth. We find it valuable for early spring greenhouse crop.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Gracillima.** (Red Riding Hood). Quite small and free-flowering, bright crimson. Ideal for hedging, about 18 in. Comes quite true to habit and color.

Tr. pkt., 15c; ¼ oz., 30c; 1 oz., 75c.

***Haageano Hybrids.** An especially valuable class for bedding. Unusually compact growth, covered with small mahogany flowers attractively variegated gold and orange shades.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Scabious-Flowered. Fairly tall and long-stemmed variety, with flower formation resembling Scabiosa. Comes fairly true to this type.

Tr. pkt., 20c; ¼ oz., 50c; 1 oz., \$1.75.



New Zinnia "Fantasy" is a really attractive variation as this cut shows. (See description at left)

Gaillardia-Flowered or Navaja. (New). Medium-large flowers in attractive two-tone combinations of rose, bronze, yellow, and orange. Fairly long stems, about like Pumilas; fine for cutting.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Cupid Type. Very dwarf and small flowered form, of value for border and rock gardens.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

There is Money in Zinnias

Flowers of Color Have Value

In getting started with Zinnias, loss and disappointment will be spared if we remember that their nature demands a rather high temperature, and this, of course, extends to seed germination—a source of frequent disappointment. No seeds will respond more happily to a steady temperature of 55 to 60 degrees than will Zinnias, but put them in a cold, wet soil, and—well, it will be like wrapping a baby in a wet blanket and putting it out in the cold.

The seeds of most plants, even those whose nature calls for cool house treatment, seem to germinate more surely, certainly more promptly, in a comfortably warm temperature. Light, sandy soil is preferred, because it will not remain too wet long after watering. A combination of wet and cold not only delays germination, but seems to favor the activity of fungus that attacks and rots seed. Much perfectly good seed is lost in this way, especially that of Zinnias. Semesan and formadehyde dust used with seed are effective destroyers of soil diseases, but are unnecessary in a light, clean, and well-drained material.



Zinnia Haageana Mexican Hybrids

ANNUAL LARKSPUR

(8,500 seeds per ounce)

Pleasing and varied colored flowers on long stems with finely cut ornamental foliage explain the widespread popularity of this half hardy annual.

Culture. A January or February sowing will produce a nice greenhouse crop during early May. Early March sowing will make late May with shorter stems. A March sowing grown on cold in 3 inch pots will also make nice material to plant out after danger of hard frost is over. For an outdoor succession crop sow out soon as soil can be handled; and two weeks later make another outdoor sowing. Larkspur is distinctly a cool temperature crop, and this extends to the germination of the seed, that will not come up satisfactorily in a temperature over 70°. The Base Branching or Imperial varieties are generally preferred because the bottom breaks will produce longer stems. No Base Branching variety comes entirely true to this habit. On the other hand, Stock-flowered varieties produce some base branching plants. Stock-flowered varieties should be topped to encourage bottom breaks.

We annually flower trials of all new and standard varieties of Larkspur. This keeps us in direct touch with the comparative value of all. Our suggestions for the best varieties, indicated by stars (*) are based on these trials.

Base Branching or Imperial Varieties

We find this class best for cutting.

* **Blue Bell.** Fairly deep blue; excellent.

Blue Spire. Very deep violet-blue.

Carmine King. Carmine-rose.

* **Daintiness.** Light lavender-blue.

Exquisite Pink Imp. Rich soft pink.

* **Gloria Improved.** Bright rose-pink; stronger color and longer stemmed than either Rosamond or regular Gloria.

* **Lilac Queen.** Rich lilac-lavender.

Los Angeles Imp. Salmon-rose.

* **Miss California.** Pink shaded salmon.

* **White King.** Fine white; considerably earlier and much larger flowered than White Spire.

White Spire. Good white.

Prices, each; Tr. pkt., 25; 1 oz., \$1.00; 1 lb., \$10.00.

Mixed. Tr. pkt., 20c; 1 oz., 80c; 1 lb., \$8.00.

Stock-Flowered Varieties

Dark Blue. A rather heavy color. * **Rosamond.** Deep rose; fine. (See cut **Empress Rose.** An excellent pink. above).

La France. Salmon-pink.

* **Lilac.** Pleasing shade of lilac.

* **Los Angeles.** Salmon-rose.

* **Rose Queen.** Very attractive rose-pink.

* **Sky Blue.** Good light blue.

White. Prefer White King.

Prices, each: Tr. pkt., 20c; 1 oz., 50c; 1 lb., \$5.00.

Mixture. Tr. pkt., 15c; 1 oz., 30c; 1 lb., \$3.50.

Giant Hyacinth-Flowered

Produces one long non-branching spike; plant close.

Dark Blue. **Lilac.** * **Pink.** * **Purple.** **White.**

Prices, each: Tr. pkt., 25c; 1 oz., 80c; 1 lb., \$8.00.

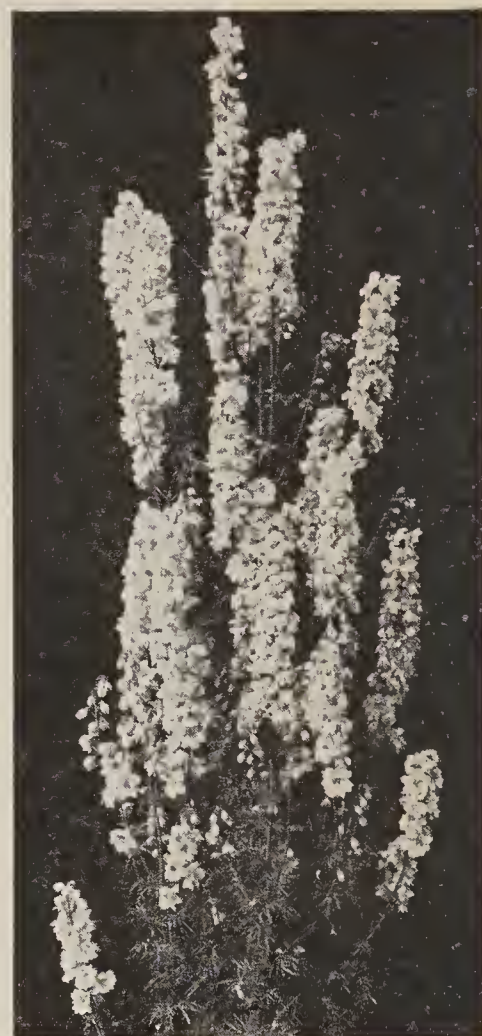
Mixture. Tr. pkt., 15c; 1 oz., 60c; 1 lb., \$6.00.

Dwarf Emperor Type

About half the height of the above cut flower varieties; used for border or bedding work.

Ageratum Blue. Well named and pleasing. Tr. pkt., 25c; 1 oz., 75c.

Enchantress. Soft salmon-pink. Tr. pkt., 35c; 1 oz., \$1.50.



Stock-flowered type of Larkspur Rosamond, the finest deep rose-pink



Larkspur, Base-Branching Type

PRIMULAS

OBCONICAS IN SEALED GLASS TUBES. Because of rapid loss of germination, we are having all this seed, including trade packets, put up by our German grower in sealed glass tubes, and at no added cost on quantities.

OBCONICA:

	Tr. pkt. 1/128 oz.	1/64 oz.	1/32 oz.
Mahnstein's Dark Red. Well known dark red	\$1.10	\$2.00	\$3.75
Fasbender's Red. Extra large deep crimson	1.10	2.00	3.75
Mahnstein's Atrasanguinea. Dark red	1.10	2.00	3.75
Mueller's (Berlin) Rose. Bright, clear rose	1.10	2.00	3.75
Mueller's Rasea	1.10	2.00	3.75
Caerulea. Fairly dark blue	1.10	2.00	3.75
Salman Queen. Salmon or coral-rose	1.10	2.00	3.75
Alba. (White). Increasingly popular	1.10	2.00	3.75
Lachsrasa. Large bright rose with enough salmon shading to make it highly attractive	1.10	2.00	3.75
Mixture. All colors of above .....	.60	1.00	1.75
Portland Beauty. (New). Double flowering rose-pink	1.50		

MALACOIDES

ERIKSSONI STRAINS.

New Baby. Large, fairly compact, deep rose.

***Baby Rose.** Extra good bright color; compact growth. We find this the best of the Erikssoni varieties. Its bright rose color and dwarf habit rate it high among Malacoides. (See cut at right).

***Baby Alba.** Good size, nearly clear white, best white.

***Brilliancy.** Attractive crimson-rose. Outstanding color in combinations. See novelty list for further description.

PRICES of all above: Each tr. pkt., \$1.00; 6 pkts., \$5.00.

***Rasea Superba.** Bright orchid-rose. Choice color; extra large-flowered and compact in growth. Excellent. Tr. pkt., 50c; 1/16 oz., \$1.00.

Weihenstephan. Clear attractive salmon-pink; fine. Tr. pkt., 50c; 1/64 oz., \$1.00.

Princess Mary. We find this choice new English variety a strong deep rose; some deeper than New Baby. Compact growing and excellent. Tr. pkt., 50c; 1/64 oz., \$1.00.

Grandiflora Rasea. Color identical with New Baby. Larger flowered. Compact growth. Very good. Tr. pkt., 75c; 1/64 oz., \$1.25.

Ball Salman-Pink. One of the most attractive varieties on the list for size and coloring, which is a live salmon-pink, but growth is not vigorous. Tr. pkt., \$1.00.

Mixture. Choice mixture of above varieties. Tr. pkt., 50c; 1/32 oz., \$1.50.

CHINESE PRIMULA. (18,000 seeds per ounce):

We note a revival of interest in this class that can be accounted for by the full list of attractive colors now available. To produce strong plants for Christmas, sow early in June.

Dazzler. Vivid orange-red. Outstanding new color in this class. Tr. pkt. (250 seeds), \$1.00.

STANDARD CHINESE TYPES:

	Tr. pkt.	1/64 oz.
Defiance. Clear deep red, dark centers; fine ..	\$0.50	\$1.50
Chiswick Red. Rich bright red .....	.50	1.25
Caerulea. Very excellent light blue .....	.50	1.25
Gigantea Alba. Extra large clear white .....	.50	1.50
Rose Queen. Large bright carmine-rose. Excellent ..	.50	1.50
Mixture .....	.50	1.25

VARIOUS PRIMULAS:

Primula Kewensis. Deep yellow, winter-flowering pot plant. 10 to 12 in. Tr. pkt., 50c; 1/32 oz., \$1.50.



Baby Rose—its bright rose color and dwarf habit rate it high among Malacoides

CINERARIAS

We annually run extensive trials of both new and standard strains of Cinerarias. The following list covers the finest strains we know of.

***Cremer's Prize Mixture.** Large heads of medium to small flowers. Medium dwarf habit with smaller foliage. The most popular American strain.

Tr. pkt., \$1.50; 1/64 oz., \$2.25; 1/32 oz., \$4.00; 1/16 oz., \$7.50.

***Berlin Market.** (Weissensee Strain). Some larger flowered; especially bright colors with many white eyes. Fairly compact, and a most attractive strain.

Tr. pkt., \$1.00; 1/64 oz., \$1.60; 1/32 oz., \$2.75.

Berlin Market Separate Colors. Dark Crimson and Dark Blue. Both very attractive, and come around 90 per cent true to color. Each: Tr. pkt., \$1.00; 1/64 oz., \$1.60.

Multiflora nana Mixed. Extra compact growth makes this strain valuable for late sowing. Tr. pkt., \$1.00; 1/32 oz., \$2.00.

Multiflora nana Type in Dark Crimson and Dark Blue. The two outstanding separate colors.

Each: Tr. pkt., \$1.00; 1/64 oz., \$2.00.

Multiflora nana, "Gold Center." Quite distinctive for attractive golden yellow center or button. 600 seeds, 60c; tr. pkt., (1000 seeds), \$1.00.

Hybrida grandiflora. Separate colors. **Azure Blue** and **Kermesina**, a rich red, are the best in straight colors.

Each: Tr. pkt., 75c; 1/64 oz., \$2.00.

Hybrida gigantea. Dark red with attractive white eye. Medium size flowers and compact. Tr. pkt., \$1.00; 1/64 oz., \$2.25.

Giant Exhibition Strain. (Howard and Smith's strain). Clearly best in our trials of various Giants.

Tr. pkt., \$1.00; 1/64 oz., \$2.75.

Eriksson's Private Stock. A Berlin Market selection made by a Chicago pot plant specialist. Tr. pkt., \$1.00; 1/64 oz., \$1.75.

Stellata or Star Mixture. Grows 2 to 3 ft. tall; small flowered and useful for cutting. Tr. pkt., 50c; 1/32 oz., \$1.25.

Plenissima, Double Mixture. Fully double flowers, finely rounded, and about 1½ in. across. Tr. pkt., 75c.

Siter's Rainbow Strain. A new strain from an eastern grower. Described by originator as compact and practically 100 per cent light eye flowers. Tr. pkt., \$2.00.

Sanguinea. A German variety of richer and more attractive color than Matador. ½ tr. pkt., 60c; tr. pkt., \$1.00; 1/64 oz., \$2.00.

Grandiflora nana Mixture. (New). A uniformly dwarf, large-flowered strain we found in Germany. Our trials showed it quite true to habit, and practically 100 per cent light centered.

Tr. pkt., \$1.00; 1/64 oz., \$2.00.

MISCELLANEOUS ANNUALS



Our extra dwarf strain of Alyssum, Carpet of Snow as grown for us in California

® indicates varieties suitable for rack garden work.

(*) indicates varieties most dependably satisfactory in our experience and observation.

Abutilon, Mixed. 850 s. (Flowering Maple). We handle exclusively the extra large flowered and early flowering strain. Attractive for pot, conservatory, or bedding plants where climatic conditions are suitable.

Tr. pkt., 35c; 1/8 oz., \$1.25.

Achimenes, Mixed. Makes attractive pot and hanging baskets. Warm house plant. Tr. pkt., \$1.00.

Acroclonium, New Hybrids. 8500 s. A Strawflower for spring cutting. Ours is the extra large flowered semi-double strain, choice colors with black centers. Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.15.

® **AGERATUM.** Most strains vary some in habit.

DWARF VARIETIES. 4 to 8 in.

***Blue Ball.** Our stock of this variety was the most even and free flowering of the two dozen we tried last summer. Large flowered. Tr. pkt., 15c; 1 oz., 75c.

Blue Cap. A good strain. Large flowered. Tr. pkt., 25c; 1/4 oz., 80c; 1 oz., \$3.00.

***Little Blue Star.** A fairly even, small and free flowering strain. Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

Little Silver Star. Small flowered silvery white. Tr. pkt., 30c; 1/4 oz., 90c.

Purple Perfection. An early flowering, extra dwarf strain. Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 90c.

Red Riding Hood. Attractive rose-pink with deeper center. Fairly even stock. Tr. pkt., 35c; 1/8 oz., 75c.

SEMI-DWARF VARIETIES. 8 to 15 in. tall. **Blue Perfection.** Large flowered. Tr. pkt., 15c; 1 oz., 60c.

Imperial Dwarf White. 10 in. Fairly large flowered. Tr. pkt., 15c; 1 oz., 60c.

Little Dorrit Blue. 15 inches. Light blue. Tr. pkt., 15c; 1 oz., 75c.

TALL VARIETIES.

Mexicanum. 24 to 30 in. For cutting. Tr. pkt., 15c; 1 oz., 40c.

How Many Seeds Per Ounce?

In reply to numerous requests we present with this catalog the number of seeds per ounce of important items listed. For example: ABUTILON MIXED—850 s. means 850 seeds per ounce. The figures are conservative and will vary with the season. Also note that it must include a varying percentage of immature seeds that are an inseparable part of most varieties. For this reason these figures must NOT be accepted as indicating the number of plants to be expected. Under favorable germinating conditions most large perennial seeds will germinate 50 to 60 per cent. Most annuals will run some higher. Quite small seeds are more easily destroyed, therefore, require more careful attention and the germination percentage is usually lower.

***ALOE Variegata.** 6500 s. (Tiger Aloe). A very popular and generally satisfactory succulent. Especially good as a house plant. Seed can be sown any time. Slow growing. 100 seeds, \$1.00; 1000 seeds, \$8.00.

® **ALYSSUM.** 5500 s. We annually flower Alyssum strains from all over the world and can, with assurance, recommend our strains as the best obtainable.

***Carpet of Snow** (Procumbens). Very well named. 2 to 4 in., very free flowering and exceptionally even stock. Tr. pkt., 15c; 1 oz., 60c; 4 ozs., \$2.00.

Little Gem. Compactum. 6 in. Of upright habit. Tr. pkt., 15c; 1 oz., 50c; 4 ozs., \$1.75.

Lilac Queen. Compactum. 6 in. Medium deep lilac shade deepening with cooler fall weather. Ours is exceptionally even stock. Tr. pkt., 15c; 1 oz., 50c.

Maritimum (Sweet Alyssum). Medium tall strain. 10 in. Tr. pkt., 15c; 1 oz., 25c; 4 ozs., 60c. For other Alyssum see Perennial List.

AMARANTHUS, Molten Fire. 4 ft. Deep red variegated foliage. Must have a fairly dry, open location. Tr. pkt., 20c; 1/4 oz., 35c.

® **ANCHUSA Capensis, Blue Bird.** 1100 s. Attractive deep Forget-me-not blue flowers. 18 to 24 in. Tr. pkt., 15c; 1 oz., 60c. For other Anchusa see Perennial List.

ARCTOTIS, Breviscapa Aurantiaca. 7700 s. Single daisy-like orange flowers with dark centers. 6 in. Tr. pkt., 35c; 1/4 oz., 80c.

Grandis. 25,000 s. Single silvery white with lilac shading and dark center. 2 to 3 ft. Tr. pkt., 20c; 1 oz., 50c.

ASPARAGUS. (California grown). Our seed germinates 60 to 75 per cent; slightly lower near the end of the season. New seed available in January. Sow with bottom heat above 65 degrees.

Plumosus. 100 seeds, 25c; 250 seeds, 40c; 1000 seeds, \$1.00; 5000 seeds, \$4.50; 1 lb., \$8.00.

Sprengeri. 100 seeds, 25c; 250 seeds, 40c; 1000 seeds, \$1.00; 5000 seeds, \$4.50; 1 lb., \$8.00. For the hardy Asparagus Verticillatus see Perennial List.

BALSAM. 3300 s.

***DOUBLE BUSH FLOWERING.** 18 to 24 in. with us. Because of flowers produced above the foliage, this class is by far the most attractive and showy for outdoor bedding work. Its camellia-like flowers are very suitable for corsage and other short stemmed work. May be sown direct as late as mid-June for August flowering.

Cinnabar. A deep rich salmon-scarlet.

Rose. A pleasing pastel rose-pink.

Scarlet.

Vermilion-Red.

White. A pure glistening white.

Mixture of above shades.

Each: Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

DOUBLE CAMELLIA-FLOWERED. Mixture. Attractive bright colors. 30 in. Tr. pkt., 20c; 1 oz., 60c.

BEGONIA

FIBROUS ROOTED. Comprises the common small flowered single bedding varieties. A January sowing will still produce nice small pot plants for Mother's Day and later. For large specimens sow in late spring for next winter and spring's supply.

***Albert Martin.** One of the most attractive varieties. Brilliant deep carmine-rose and large flowered. Green foliage. Tr. pkt., 50c; 1/32 oz., \$1.00.



Begonias make very nice small pot plants

MISCELLANEOUS ANNUALS — Continued

BEGONIA—Cont.

- Carmen.** Bright pink shade with rich bronze foliage. Compact grower.
Tr. pkt., \$1.00; 1/64 oz., \$1.75; 1/32 oz., \$3.25.
- Christmas Cheer.** Medium dwarf crimson-scarlet.
Tr. pkt., \$1.00; 1/64 oz., \$1.40; 1/32 oz., \$2.25.
- *Darling.** Extra dwarf compact growth, fairly large flowered, clear rose. Green foliage.
Tr. pkt., \$1.00; 1/64 oz., \$2.25; 1/32 oz., \$4.00.
- *Elegant.** Extra large flowered rose with white center. Bright green foliage, medium dwarf growth.
Tr. pkt., \$1.00; 1/64 oz., \$2.00; 1/32 oz., \$3.50.
- Erfordia.** Very free flowering light pink.
Tr. pkt., 50c; 1/32 oz., \$1.50.
- *Fire Sea.** (Blaze of Fire). Fiery red, extra dwarf compact growth. Green foliage.
Tr. pkt., \$1.00; 1/32 oz., \$2.00.
- Glory of Erfurt.** Medium tall bright rose. Green foliage.
Tr. pkt., \$1.00; 1/32 oz., \$2.00.
- Gustav Knaake.** Melior Begonia shade of salmon-pink.
Tr. pkt., 50c; 1/32 oz., \$1.75.
- *Indian Maid.** Medium dwarf deep carmine-scarlet with metallic bronzy green foliage. Very attractive.
Tr. pkt., \$1.00; 1/64 oz., \$2.50; 1/32 oz., \$4.50.
- *Lightning.** Extra large flowered carmine-scarlet; fine new variety.
Tr. pkt., \$1.00; 1/64 oz., \$2.25; 1/32 oz., \$4.00.
- Luminoso.** Deep bright scarlet, reddish brown foliage.
Tr. pkt., \$1.00; 1/32 oz., \$1.75; 1/16 oz., \$3.00.
- *Luminoso Compacto.** Dwarf compact strain of above. Ideal for pots and bedding work.
Tr. pkt., \$1.00; 1/64 oz., \$2.00.
- Mignon.** Semi-dwarf, deep salmon-rose shade.
Tr. pkt., 50c; 1/32 oz., \$1.75.
- *Prima Donno.** Very pleasing rose-pink, medium dwarf.
Tr. pkt., \$1.00; 1/64 oz., \$1.50; 1/32 oz., \$2.50.
- *Rodio.** Extra large flowered bright carmine-scarlet, green foliage.
Tr. pkt., \$1.00; 1/64 oz., \$1.50; 1/32 oz., \$2.50.
- Scarlet Queen.** Medium dwarf, bright scarlet. Bronzy green leaf.
Tr. pkt., 50c; 1/32 oz., \$1.50.
- Vernon.** Deep blood-red, dark leaf, medium dwarf.
Tr. pkt., 35c; 1/16 oz., 75c.
- White Pearl.** Fairly dwarf.
Tr. pkt., 50c; 1/32 oz., \$1.65.
- Mixture** of all above colors.
Tr. pkt., 35c; 1/16 oz., 75c.
- TUBEROUS-ROOTED.** 4-in. pot plants are easily grown from a January 1st or December sowing by late June, and for larger specimens seed should be started late spring or early summer for mid-winter flowering. 65 to 70 degrees, uniform atmospheric and soil moisture, and constant protection from direct sun are the principal requirements. The Lloyd class is especially desirable as mid-summer pot plants.

BEGONIA—Cont.
Tuberos-rooted.

- Rex Hybrids.** The old favorite ornamental-leaved type. Care must be taken in germinating this extra fine seed. This strain produces attractive variations.
500 seeds, \$1.75.
- *Lloyd.** A graceful, pendulous, free-flowering habit adapts this class especially to pots and hanging baskets. Double.
Red Shades.
Tr. pkt., \$1.00; 1/64 oz., \$6.00.
- Mixture.** Shades of pink to carmine with some white.
Tr. pkt., \$1.00; 1/64 oz., \$5.00.
- Narcissus-Flowered Mixture.** A striking novelty type quite similar to the Narcissus. Contains yellow, pink, and salmon shades.
Tr. pkt., \$1.00.
- SINGLE LARGE FLOWERED VARIETIES.**
- Aurora.** Buff-yellow to cerise-orange.
- Light Rose.**
- Orange.**
- Scarlet.**
Each: Tr. pkt., 50c; 1/64 oz., \$1.50.
- Mixture** of above and other shades in this class.
Tr. pkt., 50c; 1/64 oz., \$1.25.
- DOUBLE LARGE FLOWERED VARIETIES.**
- Carmine.** Shade of deep orange-carmine.
- Lafayette Hybrids.** Bronze-leaved orange-scarlet shades.
- Light Rose.**
- Orange.**
Each: Tr. pkt., \$1.00; 1/128 oz., \$4.00.
- Mixture** of above and other shades in this class.
Tr. pkt., \$1.00; 1/128 oz., \$3.00.

®**BRACHYCOME iberidifolia.** (Swan River Daisy). 6- to 8-in. plants bearing small single flowers quite freely. Nice for edging.

Azure Foxy. Azure-blue, the most popular shade.
Tr. pkt., 20c; 1 oz., 90c.

Mixture of magenta, blue, lavender shades, and white.
Tr. pkt., 15c; 1 oz., 65c.

BROWALLIA. Used extensively for winter and spring-flowering pot plants. Very nice outdoors in beds and borders where summers are not excessively hot.

Speciosa Major. Standard blue variety. 10 to 12 in.
Tr. pkt., 35c; 1/32 oz., \$1.25.

Speciosa Major Alba. White form of above.
Tr. pkt., 50c; 1/64 oz., \$1.50.

***Viscago Compacto, Soppire.** More compact than above with a profusion of small attractively light-eyed flowers.
Tr. pkt., 35c; 1/16 oz., \$1.00.



This cut pictures three distinct classes of Calceolarias. On the right is the fairly tall, spotted Tigrina; the ever popular Multiflora Nana in the center, with a Dwarf Tigered Grandiflora on the left. Seed for these was sown early October, flowering in May.

CACALIA (Tassel Flower).

Coccinea. 56,000 s. Small light fiery scarlet flowers on 30-in. stems.
Tr. pkt., 15c; 1 oz., 50c.

CALCEOLARIA. For extra large specimen plants next spring sow in May and June. Sowings late as October will produce very good 4-in. pot plants for spring use.

Flower Cloud. Retains its Rugosa parent's vigorous growth and free flowering. Small flowered and medium dwarf.
Tr. pkt., \$1.00; 1/128 oz., \$4.00.

MULTIFLORA NANA. 10 to 12 in. The preferred class for medium sized pot plants because of very dwarf and compact habit and free flowering.

***Golden Tiger.** Rich tigered effect of golden yellow with red.
Tr. pkt., \$1.00; 1/128 oz., \$2.00; 1/64 oz., \$3.75.

***Indian Prince.** Rich deep scarlet.
Tr. pkt., \$1.00; 1/128 oz., \$2.75; 1/64 oz., \$5.00.

***Mixture.** Attractive mixture of colors in this dwarf class.
Tr. pkt., \$1.00; 1/128 oz., \$2.50; 1/64 oz., \$4.50; 1/32 oz., \$8.00.

GRANDIFLORA. Large flowered with taller growth than above.

Albert Kent. Golden yellow with red blotch in each flower.
Tr. pkt., \$1.00; 1/64 oz., \$2.50.

Albert Kent Hybrids. A good large flowered mixture.
Tr. pkt., \$1.00; 1/64 oz., \$2.00.

***Cloth of Gold.** Ours is an especially dwarf and even strain of this fairly large flowered, rich pure golden yellow.
Tr. pkt., \$1.00; 1/64 oz., \$2.25.

Tigrino. Medium sized, fairly tall attractively tigered and spotted type.
Tr. pkt., \$1.00; 1/64 oz., \$2.75.

***Dwarf Tigered and Spotted Mixture.** An extra dwarf and compact large flowered mixture of attractive tigered and spotted markings. Very bright, attractive mixture and even strain. (See cut above).
Tr. pkt., \$1.00; 1/64 oz., \$2.50; 1/32 oz., \$4.50.

***Manarch Strain Mixed.** A strong growing attractively colored Grandiflora mixture.
Tr. pkt., \$1.00; 1/64 oz., \$2.75.



"FLOWER SEEDS FOR FLORISTS"

MISCELLANEOUS ANNUALS — Continued

CALCEOLARIA—Cont.

Kelway's Perfect Model. Fairly tall. We carry only the originator's seed of this popular mixture.
Tr. pkt., \$1.00; 1/64 oz., \$2.50.

Mixture. Ours is a very excellent even strain with a color mixture from yellow through rose and spotted types to deep red.
Tr. pkt., \$1.00; 1/64 oz., \$2.00.

RUGOSA MAJOR.

Perennial Hybrids. A very small flowered type used for large exhibition work and for bedding in temperate climates.
Tr. pkt., \$1.00.

CALLIOPSIS.

Drummandi, Golden Wave. Semi-double strain. Flowers 1 in., golden yellow with dark eye. 12 in.
Tr. pkt., 15c; 1 oz., 25c.

®**Dwarf Mixture.** 6 to 8 in. Attractive dwarf compact mixture of yellow and red shades.
Tr. pkt., 15c; 1 oz., 30c.

CAMPANULA.

Annul Cup-and-Saucer Mixture. A double Campanula that flowers six months from seed sowing. 75 per cent true Cup-and-Saucer type.
Tr. pkt., 50c; 1/4 oz., \$1.50; 1 oz., \$4.50.

Annul Canterbury Bells Mixture. Same as above but of the single type. 2 ft.
Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.00.

Fragilis. Of graceful pendulous habit suitable for pots and hanging baskets; azure-blue.
Tr. pkt., 50c; 1/32 oz., \$1.15.
For other Campanula see Perennial List.

CANDYTUFT.

HYACINTH-FLOWERED.

***Giant White.** (Ball Strain). Our own specially selected greenhouse strain. See Novelty List for complete description.
Tr. pkt., 25c; 1 oz., 75c; 4 ozs., \$2.50; 1 lb., \$7.50.

®**Miniature Gem.** A nice rock garden form of above. 4 in. high producing 4 to 6 miniature hyacinth-flowered spikes.
Tr. pkt., 20c; 1/4 oz., 30c; 1 oz., 90c.

UMBELLATA. A popular spring cut flower item from a January sowing, planted 8x10 in. The best varieties are starred.

***Carmine, Crimsan, Flesh-Pink, *Lavender** (Lilac), ***Rose Cordinal, White, Mixture.** Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.00.

®**Dwarf Hybrids Mixture.** An attractive 3- to 4-in. form of above in mixture. Try it for a dwarf edging or rock plant.
Tr. pkt., 15c; 1 oz., 50c.

For other Candytuft (Iberis) see Perennial List.

CARNATION. 14,000 s. From an early sowing carried along in pots and planted outdoors, preferably under cloth house protection from the sun, and disbudded, a nice crop of summer Carnations can be had from July on.

Engelmann's Perpetual Flowering Gold Medal Mixture. Should not be confused with the following outdoor varieties; a hybrid mixture of Perpetual or greenhouse types containing many new and original colors from a famous English Carnation specialist.
Tr. pkt., \$1.00; 1/16 oz., \$1.60.

ENFANT DE NICE. The preferred strain.

***Aurora.** Deep salmon-rose.
Tr. pkts. only, 50c.

***Red, *Rose, Salman, *White.**
Tr. pkt., 50c; 1/8 oz., \$1.00; 1/4 oz., \$1.75.
Mixture. Tr. pkt., 35c; 1/4 oz., \$1.25.

CHABAUD'S EXTRA GIANT PERPETUAL. A new highly selected strain of the standard Chabaud type.

***Cardinal Red, Crimsan, Deep Rose, *Deep Solman, *Flesh-Pink, *White, Yellow.**
Tr. pkt., 35c; 1/4 oz., 65c; 1 oz., \$2.25.

Mixture. Tr. pkt., 30c; 1/4 oz., 50c; 1 oz., \$1.75.

CASTOR BEAN. See Ricinus, this list.

CELOSIA. 28,000 s. Both the tall and dwarf strains of the Cockscomb (Cristata) and Plumosa types have distinct places in decorative outdoor plantings and the dwarf types lend themselves well to spring pot plant work, as well as outdoor bedding. Their ease of culture and extremely showy fall colors are undoubtedly responsible for a rapidly increasing demand, especially for the dwarf type.

Spicoto. 5 ft. Very narrow upright row, 6 in. wide. Bright rose, dries well.
Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.25.

CRISTATA. The popular Cockscomb type.

***Dwarf Golden Yellow.** 18 in. Deep golden yellow comb set in light green foliage. Ours is a specially selected even strain.
Tr. pkt., 35c; 1/4 oz., 75c.

***Dwarf Empress.** Same as above but deep scarlet.
Tr. pkt., 35c; 1/4 oz., 75c.

***Dwarf Mixture.** Very uniformly dwarf even stock with complete color mixture.
Tr. pkt., 35c; 1/4 oz., 75c.

Tall Mixture. 3 to 4 ft. Complete mixture of Cockscomb colors.
Tr. pkt., 15c; 1 oz., 75c.

PLUMOSA. Plumed or feathery type producing spirelike branches mostly from base of plant. The new dwarf varieties have found very wide use both for bedding and as spring pot plants. The taller varieties are very showy and freely used for fall cutting.

***Dwarf Fiery Feather.** (Pyramidalis). See Novelty List.

***Dwarf Golden Feather.** (Pyramidalis). See Novelty list.
Each: Tr. pkt., 30c; 1/8 oz., 60c; 1/2 oz., \$2.00.

CELOSIA—Cont.

***Flame of Fire.** 14 to 16 in. Quite an outstanding dwarf compact strain. Has value for pot work; more solidly compact than above strains and some later flowering.
Tr. pkt., 30c; 1/4 oz., \$1.00.

Tall Fiery Red. 4 ft. Brilliant crimson and scarlet.

Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.25.

***Thompson's Magnifica.** See Novelty list. Ours is a fine strain of this popular variety. Mixture of colors, red shades predominating.
Tr. pkt., 25c; 1/4 oz., 65c; 1 oz., \$2.25.

CHILDSI. An attractively different Celosia with knobs or ball-like formations on the end of each branch. Comes about 60 to 70 per cent true.

Crimson, Rose, Mixture.
Each: Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.35.

CENTAUREA. A valuable half-hardy annual, used extensively for cutting both indoors in the spring where it responds readily to electric light forcing, and outdoor field culture.

Suaveolens (Sweet Sultan). Similar to the Imperialis type. 18 in. high, thistle-like flowers, bright yellow. Very well adapted to spring forcing.
Tr. pkt., 15c; 1 oz., 40c.

CYANUS DOUBLE (Bachelor Button or Cornflower). 6500 s. Very free flowering material useful either for spring forcing or outdoor field growing.

***Blue Boy.** The most popular and valuable color and variety. **Carmine, *Pinkie, Rose, White, Mixture.**
Each: Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.30; 1 lb., \$4.00.

Jubilee Gem. The new dwarf compact strain for pots and bedding. 12 to 15 in. Deep blue flowers.
Tr. pkt., 50c; 1/4 oz., 85c; 1 oz., \$3.00.

IMPERIALIS (Sweet Sultan). 7500 s. Larger flowered than Cyanus. Double thistle-like flowers. **Amoranth-Red, *Brilliant Rose, *Deep Lovender, *Delicote Lilac, Rose, White, Mixture.**
Each: Tr. pkt., 15c; 1 oz., 50c.

AMERICANA. 2400 s. Still larger than the Imperialis. Of value grown outdoors. **Lilac, the preferred color. White.**
Each: Tr. pkt., 15c; 1 oz., 50c.

CANDIDISSIMA and **GYMNOCARPA.** See Dusty Millers.

CENTAUREA MONTANA. See Perennial List.

CHRYSANTHEMUM. (Annual). 9000 s. The varieties listed furnish a valuable after-Mum crop. Should be spaced at least 12x12 in. Respond readily to electric light forcing.

Burridgeanum. White with crimson zone and brown eye.

***Northern Star.** White with golden yellow zone and brown eye.

Eastern Star. Pale lemon, golden zone and brown eye.

Evening Star. Golden yellow with yellow eye.

***Eldorado.** Golden yellow with brown eye.

MISCELLANEOUS ANNUALS — Continued

COLEUS—Cont.

Giant Exhibition Mixture. The finest strain we are able to find. Produces a high percentage of brilliantly shaded foliage. Large leaved.

Tr. pkt., 75c; 1/32 oz., \$1.75.

***Rainbow Mixture.** A very excellent, most popular all-purpose mixture.

Tr. pkt., 35c; 1/16 oz., \$1.00.

Hybrida Mixture.

Tr. pkt., 35c; 1/8 oz., 60c; 1 oz., \$3.50.

***Dwarf Red Shades.** A large leaved strain with foliage colors predominating in rich autumn red and bronze shades.

Tr. pkt., 40c.

CONVOLVULUS (Morning Glory). 1400 s.

Majar Mixed. Tall.

Minar Mixed. Dwarf.

Each: 1 oz., 10c; 1 lb., 85c.

COSMOS.

SENSATION. 5000 s. The most recent introduction in Cosmos and certainly the most outstanding variety. Fully as early as the Early Express type and nearly as large flowered as the late Giant Mammoth and Lady Lenox. Sensation varieties are the only ones to grow for cut flower purposes. May easily be disbudded for even larger flowers.

***Pink.** (Pinkie).

***White.** (Purity).

***Mixture** of above two colors.

Each: Tr. pkt., 25c; 1/4 oz., 55c; 1 oz., \$1.75.

EXTRA EARLY EXPRESS. 5000 s. Flowers in 45 days from an outdoor sowing. **Pink, White, and Mixture.**

Each: Tr. pkt., 15c; 1/4 oz., 25c; 1 oz., 75c.

EARLY SINGLE MAMMOTH FLOWERED. 5000 s. The standard large flowered type.

Crimson, Pink, White, Mixture.

Each: Tr. pkt., 15c; 1 oz., 40c.

EXTRA EARLY DOUBLE ANEMONE-FLOWERED OR CRESTED. 5000 s. Produces fully 50 per cent large crested flowers.

Cornelia, crimson; Peach Blossom; Whirlwind, white; Mixture.

Each: Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

GIANT FLOWERED LADY LENOX. 5000 s. Late flowering, extra large flowered.

Pink, White, Mixture.

Each: Tr. pkt., 15c; 1 oz., 25c.

HYBRIDA KLONDYKE. 2800 s.

***Orange Flare.** Very early flowering and a good orange color. Fine for cutting.

Tr. pkt., 20c; 1/4 oz., 35c; 1 oz., \$1.00.

Orange. The regular late flowering orange Cosmos.

Tr. pkt., 15c; 1 oz., 60c.

®**CUPHEA Firefly.** 7000 s. An attractive new spring pot plant. Dwarf and compact in habit, covering itself with fiery cerise flowers. Made a very even and fairly attractive row in our trial ground last summer from a March sowing. About 12 in. high and flowered continuously throughout the summer.

Tr. pkt., 50c; 1/8 oz., \$1.00.

CYCLAMEN. Following are supplied in Binnewies' strain, originator's packets.

No. 1. Dark Blaad-Red. 100, \$1.15; 1000, \$10.00.

No. 2. Bright Red. 100, \$1.15; 1000, \$10.00.

No. 3. Pure Rose. 100, \$1.15; 1000, \$10.00.

No. 4. Soft Rose. Carmine eye. (Improved Rose of Marienthal). 100, \$1.15; 1000, \$10.00.

No. 5. White. Carmine eye. 100, \$1.15; 1000, \$10.00.

No. 6. Pure White. 100, \$1.15; 1000, \$10.00.

No. 7. Bonfire. Brilliant salmon. Supply limited until 1938 crop ready early summer. 100 seeds only, \$1.70.

No. 8. Salmon-Scarlet. America Improved. 100, \$2.00; 1000, \$16.00.

No. 9. New Salmon-Rose Improved. 100, \$1.50; 1000, \$13.00.

No. 10. Glory of Wandsbek or **Perle of Zehlendorf.** Dark salmon. 100, \$1.50; 1000, \$12.00.

No. 11. Rose of Zehlendorf. Light salmon. 100, \$1.50; 1000, \$12.00.

No. 12. Orange Beauty. Orange-vermilion. 100, \$1.80; 1000, \$17.00.

No. 14. Morning Red. 100, \$1.60; 1000, \$13.00.

No. 15. Saffran-Red. 100, \$1.40; 1000, \$11.00.

No. 16. Saffran-Red. Silver edged. 100, \$1.70; 1000, \$15.00.

No. 17. Striata. Mixed varieties. 100, \$1.40; 1000, \$11.00.

No. 18. Mozart. Deep pink. 100, \$1.80; 1000, \$17.00.

No. 19. Lavender. 100, \$1.15; 1000, \$10.00.

No. 20. New Ruffled in calars. Especially attractive class. 100, \$2.00; 1000, \$18.50.

No. 21. Pink Pearl. Salmon-pink. 100, \$1.80; 1000, \$17.00.

Cristata. Pure white feathered. 100, \$1.60; 1000, \$13.00.

Mixture of above colors. 100, \$1.15; 1000, \$10.00.

VOGT'S DOUBLE STRAIN. We handle only Mr. Vogt's seed of this fine strain. Clearly more attractive than the regular or 5-petal single type.

Cerise Brilliant. Rich cerise-red.

Prosperity. Flaming rich rose.

Admiration. Salmon-rose with shaded eye.

Rosea. Soft rose shading with light at tip of petals.

Mixture of above four colors.

Each: 100 seeds, \$2.50; 250 seeds, \$5.75; 500 seeds, \$10.75; 1000 seeds, \$20.00.



Chrysanthemum Segetum—a very excellent spring cut-flower item and easily handled.

CHRYSANTHEMUM—Cont.

Gloria Alba. White with yellow zone and yellow eye.

Morning Star. Lemon with yellow zone and yellow eye.

Mixture of above colors. Each: Tr. pkt., 15c; 1 oz., 25c.

HARDY CHRYSANTHEMUMS and DAISIES. See Perennial List.

CLARKIA, Elegans Double. 90,000 s. One of the standard and always popular spring cut flowers. Should be sown in January and grown on in shallow flats, supported and disbudded to 2 or 3 spikes per plant if long-stemmed flowers are wanted. Keep fairly dry after plants are a foot or so high and do not feed.

***Albatross.** The best white.

Appleblossam. Light pink.

***Brilliant.** Bright deep rose. Very good market color.

Chieftain. Deep bright mauve.

***Enchantress.** Light pleasing shade of salmon-pink.

Firebrand. Deep bright scarlet.

***La France.** Light salmon-pink.

***Orange King.** Large fully double orange-scarlet. Excellent bright color.

***Salmon Queen.** Medium light salmon-pink. Good variety.

Vesuvius. Orange King much better.

Mixture of above colors.

Each: Tr. pkt., 20c; 1 oz., 65c.

COBAEA Scandens. 375 s. A favorite annual climber.

Purple. The preferred color. Tr. pkt., 15c; 1 oz., 50c.

White. Tr. pkt., 20c; 1 oz., 80c.

COLEUS Hybrida. Although no evenness in color can be had from seedling Coleus, they are easily raised from seed and are valuable from a January sowing for plant combination work in the spring because of their attractive color variations. Also as a source of attractive color variations from which a stock of cuttings can be worked up.

MISCELLANEOUS ANNUALS — Continued



Dahlia, Unwin's Dwarf Hybrids
If started early they get into nice flower late in summer.

CYNOGLOSSUM (Chinese Forget-me-not). 5000 s. 24 in.

Blue Bird. (New). Our trials of this with regular Amabile Blue show a more vigorous upright growth that doesn't "sprawl" as easily although a week or so later in flowering.
Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.25.

Amabile Blue. The preferred color.
Tr. pkt., 15c; 1 oz., 30c.

Pink. Tr. pkt., 15c; 1 oz., 50c.

CYPERUS Alternifolius (Umbrella Plant). Tr. pkt., 20c; 1 oz., \$1.00.

DAHLIA. 2800 s. Aside from their use as sources of tuber-propagated stock, seedling Dahlia strains are finding an ever-increasing popularity as outdoor bedding stock, especially the dwarf Unwin and Coltness strains. Flowers first season from an early sowing.

***Unwin's Dwarf Hybrids.** Outsells all our other varieties. Our strain is grown by specialists. 18 in., double and semi-double with a particularly wide range of good colors.
Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25; 4 ozs., \$7.00.

Lilliput or Pampon Mixture. A good proportion are perfectly formed, fully double Pompon-like flowers. 24 in.
Tr. pkt., 75c; ¼ oz., \$1.35.

Decorative and Cactus Mixed. 30 in. Varies considerably in flower type and height. Contains excellent specimens for tuber-propagation.
Tr. pkt., 50c; ¼ oz., \$1.75.

COLTNESS STRAIN. Single, 18 in. Uniformly dwarf and true to color.

Scarlet Gem. Bright color.
Tr. pkt., 30c; ¼ oz., 65c; 1 oz., \$2.25.

Mixture. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.90.

DELPHINIUM Chinensis. (Annual). 20,000 s. From a September sowing produces a nice forced spring crop. Does well outdoors from a January or February sowing.

***Cambridge Blue.** The standard Belladonna-blue variety.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Dark Blue, White. Each: Tr. pkt., 20c; 1 oz., 75c.

Mixture. Tr. pkt., 15c; 1 oz., 60c.
For other Delphinium see Perennial List.

®**DIANTHUS.** 25,000 s.

Annual Sweet William (D. barbato-sinensis.) 12 in. Single mixed.
Tr. pkt., 15c; 1 oz., 60c.

***SWEET WIVELSFIELD.** 12 in. An improved large flowered annual Sweet William. Brilliant colors and free flowering habit.

Dauble Magenta with White Eye, Dauble Wine-Red, Dauble Mixture. A wide range of colors in this class.
Each: Tr. pkt., 50c; ¼ oz., \$1.00.

Single Mixture. The original Sweet Wivelsfield strain. Makes attractive cutting material for a retail grower.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

HEDDEWIGI (Double Japanese Pinks). 10 in. Fine for rock garden work. Free flowering.

Fireball. Deep scarlet.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Pink Beauty. Blush-pink.
Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

***Snowdrift.** Extra large flowered pure white.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Laciniatus Splendens. Extra large 2-in. flowers. Brilliant crimson with large white eye.
Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Diadem Mixture of above colors: Tr. pkt., 15c; 1 oz., 60c.
For other Dianthus see Perennial List.

DIDISCUS Caeruleus (Blue Lace Flower). 10,000 s. Valuable for spring forcing indoors, also outdoors.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 80c.

***DIMORPHOTHECA Aurantiaca.** 9500 s. **Hybrids Mixed.** A very delightful early flowering annual border or rock garden plant. 6 to 10 in. 2-in. single daisy-like flowers in yellow, buff and orange shades.
Tr. pkt., 20c; 1 oz., 75c.

DRACAENA.

Austrolis. 1000 s. The broad-leaved kind.
Tr. pkt., 20c; 1 oz., 75c.

Indivisa. 1500 s. The narrow-leaved and most popular one.
Tr. pkt., 15c; 1 oz., 40c; 4 ozs., \$1.25; 1 lb., \$4.25.

DUSTY MILLER.

Centaurea Candidissima. 7500 s. 6 in. of slow growth. Must be started early.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Centaurea Gymnacarp. 7300 s. 24 in. Heaviest and most rapid grower of these three varieties.
Tr. pkt., 15c; 1 oz., 50c.

DUSTY MILLER—Cont.

***Cineraria Maritima, Diamand.** 10 in. Of fairly compact habit, very white foliage. The best of the "Dusty Millers."
Tr. pkt., 15c; 1 oz., 50c.

EUPHORBIA.

Heterophylla (Annual Poinsettia or Mexican Fire Plant). 5000 s. Makes solid hedge with small Poinsettia-like flowers at tips of branches. 36 in.
Tr. pkt., 15c; 1 oz., 60c.

Variegata. The popular Snow-on-the-Mountain.
Tr. pkt., 15c; 1 oz., 35c.

For Euphorbia Corollata see Perennial List.

***EXACUM affine atracaeruleum.** A very attractive, easily grown and richly fragrant pot plant. Ours is the richer deeper blue shade.
Tr. pkt., \$1.00; 1/64 oz., \$2.25.

FOUR O'CLOCK. See Marvel of Peru.

GAILLARDIA Lorenziana. 14,000 s. Double mixture of yellow and red shades. Quite attractive and free flowering. 18 in.
Tr. pkt., 15c; 1 oz., 40c.
For other Gaillardia see Perennial List.

GERBERA, Jamesani Hybrids. A popular greenhouse forcing plant. Our crop of this in California is harvested several times a year, enabling us to furnish fresh seed at all times.
100 seeds, 40c; 500 seeds, \$1.75; 1000 seeds, \$3.00.

GILIA Capitata (Blue Thimble Flower). 100,000 s. Reselected. 24 in. Ball-shaped with some cutting value. Attractive feathered foliage.
Tr. pkt., 15c; 1 oz., 25c.

GLOXINIA. 4-in. pot plants in 6 to 8 months from seed sowing are obtained with attention to a few fundamentals such as uniform moisture both in the soil and atmosphere, and protection from direct sun.

***Crimson Glow.** Rich velvety crimson-scarlet. Very free flowering.
Tr. pkt., \$1.00; 1/64 oz., \$2.50.

***Frederick Benary.** (Gigantea). Extra bright white-throated scarlet.
Tr. pkt., \$1.00; 1/64 oz., \$2.50.

Defiance. Rich glowing scarlet.
Tr. pkt., \$1.00; 1/64 oz., \$1.50.

Emperor William. (Crassifolia Erecta). Dark violet-bordered white.
Tr. pkt., \$1.00; 1/64 oz., \$1.50.

Tigered and Spotted Mixture. Attractively variegated colors.
Tr. pkt., \$1.00; 1/64 oz., \$1.50.

***Benary's Giant Mixture.** (Gigantea). The finest mixture we know of.
Tr. pkt., \$1.00; 1/64 oz., \$1.50.

GODETIA. Require shallow soil for greenhouse use, about like Clarkia. Following are all of the large flowered type.

***The Bride.** Attractive combination of white and crimson. 24 in.
Tr. pkt., 20c; 1 oz., 50c.

Sweetheart. Double poppy-like flower, clear pink. 18 in.
Tr. pkt., 20c; 1 oz., 80c.

MISCELLANEOUS ANNUALS — Continued

GODETIA—Cont.

Sybil Sherwood. Bright salmon-pink edged white. 18 in.
Tr. pkt., 20c; 1 oz., 80c.

***Thunderbolt.** Deep crimson. Dwarf. 1 ft.
Tr. pkt., 20c; 1 oz., 70c.

***Duchess of Albony.** Pure satiny white. Extra large flowered. 18 in.
Tr. pkt., 20c; 1 oz., 60c.

Wild Rose. Dwarf single. Pleasing shade of medium deep pink. Nice for pots or border work.
Tr. pkt., 20c; 1 oz., 80c.

Toll Double Mixture. For cut flower work.
Tr. pkt., 15c; 1 oz., 50c.

GOMPHRENA (Globe Amaranth). 5500 s. Everlasting. The way our Chicago market snapped up the few bunches we cut from our trial ground lines this fall suggests their use for cutting. Good stems and long lasting flowers.

***Aureo Superbo.** Orange. Large flowered. Needs support for straight stemmed, cut flowers.
Tr. pkt., 15c; 1 oz., 40c.

GLOBOSA. Round, ball-like flowers.
Rose. Light rose-pink. 30 in.

***Rubro.** Bluish purple. A very bright deep purple. 30 in.

White. A grayish white. 30 in.

Mixture of above colors.
Each: Tr. pkt., 15c; 1 oz., 25c.

®**Nono Compacto Rubro.** 8 in. Dwarf strain of Rubra. Very nice for edging.
Tr. pkt., 15c; 1 oz., 50c.



Ornamental Gourds—all types mixed

GOURDS, Ornamental. Easily grown and when properly dried and varnished, last indefinitely. We will be glad to send you a copy of a circular written by Louis La Montagne of Woburn, Mass., outlining his practical method of growing the fine exhibition Gourds for which he is famous.

***Lo Montagne Stroin.** 475 s. The best mixed Gourd Strain we have. Our seed comes direct from the originator.
Tr. pkt., 35c; ¼ oz., 50c; 1 oz., \$1.50.

LARGE TYPE. 135 s.

Colobosh (Pipe or Powder Horn Gourd). Light green. 10 in. Long tapering to bottom.

Dipper. Light green, slightly mottled white. 18 to 24 in. and very slender.

Sugar Trough or Corsicon Gourd. Light green, turning to white. 4 in. high by 6 to 8 in. wide.
Each: Tr. pkt., 10c; 1 oz., 25c.

GOURDS—Cont.

SMALL TYPES. 450 s.

Small Bottle. Greenish white, shape of small bottle. 2 to 4 in. high and 1 to 2 in. through.

Orange. About the color and shape of an orange. 2 in. through.

Peor. Striped alternately with green and yellow bands with some white markings. About 2 in. high and 1 in. through.

Spoon. More or less spoon-shaped. Orange and white striped. 4 to 6 in. long by 1 in.

Warted Types Mixed. Not over 4 in. in diameter. A rather novel and attractive mixture.
Each: Tr. pkt., 10c; 1 oz., 30c.

GREVILLEA Robusto (Australian Silk Oak). 3000 s. Seeds sown in early spring and grown in 60-degree house will make nice 5-in. pot plants by fall. Give bottom heat and a well-drained soil. Valuable for combinations.
Tr. pkt., 20c; 1 oz., 75c.

GYSOPHYLLA Elegans (Baby's Breath). The first strains listed, from the standpoint of extra large flowers and strong growth, are the finest we have been able to locate, and we have flowered in our greenhouses all reliable strains of annual Gypsophila.

***Covent Garden Market.** Large and full petaled flowers. About 60 per cent are 6 to 8 petaled instead of the usual four. Very excellent stock.
1 oz., 20c; 4 ozs., 50c; 1 lb., \$1.60; 5 lbs., \$6.50.

London Market. The largest flowered stock we know of. Long-stemmed and a fairly even strain.
1 oz., 25c; 4 ozs., 60c; 1 lb., \$1.75; 5 lbs., \$7.00.

***Paris Market.** The standard medium sized strain. Flowers of this smaller flowered type outlast the larger flowered varieties when cut because of their size.
1 oz., 15c; 4 ozs., 40c; 1 lb., \$1.00; 5 lbs., \$4.50.

Cormineo. Same as Paris Market except color a bright carmine-pink.
Tr. pkt., 15c; 1 oz., 25c; 4 ozs., 75c.

Crimson. Same as above but color considerably deeper—a carmine-crimson.
Tr. pkt., 15c; 1 oz., 25c; 4 ozs., 75c.
For other Gypsophila see Perennial List.

HELIANTHUS (Sunflower).

Dwarf Chrysanthemum-Flowered. 650 s. Good proportion of fully double flowers.
Tr. pkt., 10c; 1 oz., 20c.

Russian. 8500 s. Large single Sunflower.
1 oz., 10c; 1 lb., 50c.

HELICHRYSUM Monstrosum. 36,000 s. Popular double Strawflower. **Conary-Yellow, Crimson, Fireball, Golden Globe, Rose-Cormine, Rose Queen, Solmon, Scarlet, White, Mixture** of above colors.
Each: Tr. pkt., 15c; 1 oz., 50c.

HELIOTROPE.

***Dwarf Regole Mixture.** 12 to 14 in. The preferred strain for clear colors and even growth.
Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$1.85.

Lemoine's Giant Mixture. 5300 s. Grown easily from seed. 2 ft.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

HUNNEMANNIA Fumorioefolia. 8000 s.
***Sunlite.** Brilliant canary-yellow, semi-double.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

Bush Eschscholtzio. Yellow.

Tr. pkt., 15c; 1 oz., 50c.

IBERIS. See Candytuft in Annual and Perennial lists.

IMPATIENS. The introduction of two new dwarf strains has increased our seed sale of this standard pot plant 100 per cent. The dwarf habit of these strains makes them ideally suited to pot plant work. Our 4-in. plants in flower in October, 1937, were 6 in. high and flowered very profusely. Very good in dwarf combinations.

***Sultani Nana.** A dwarf form of this familiar bright carmine variety.
Tr. pkt., 50c; 1/32 oz., \$1.25.

***Sultani Hybrido Nana.** A bright mixture of colors in this dwarf class.
Tr. pkts. only, 50c.

Sultani. 20,000 s. Bright rose. 18 in.
Tr. pkt., 50c; 1/16 oz., \$1.00.

Holsti Liegnitzio. Vermilion-red. Free flowering. Tr. pkt., 50c.

Holsti Hybrids. Mixture. 55,000 s.
Tr. pkt., 50c; 1/16 oz., \$1.00.

Oliveri. Rosy lilac. 24 in.
Tr. pkt., 75c.

IPOMOEA (Moonflower).

***Heavenly Blue.** 400 s. Clark's Mammoth Early Free Flowering Strain, several weeks earlier flowering than the original strain. Suggest the seeds be sown early and the plants hardened in pots for spring flowering. Should be planted out in a loose well-drained, rather poor soil.
Tr. pkt., 20c; 1 oz., 75c.

Rose Morie. 1100 s. Double deep rose. Free flowering and early.
Tr. pkt., 20c; 1 oz., 75c.

Quomoclit (Cardinal Climber). 9500 s.
Tr. pkt., 15c; 1 oz., 60c.

NOCTIFLORA. 110 s. Large flowered white.

Black-seeded, White-seeded.

Each: Tr. pkt., 15c; 1 oz., 40c.

ISOLOMA Hirsutum Multiflorum Hybridum. Choice tuberous-rooted pot plant. 6 to 8 in. Requires about same care as Gloxinias. Tr. pkt., \$1.00.

***KALANCHOE Globulifera Coccineo.** Popular spring flowering pot plant and easily grown from seed. From a January or February sowing grown in a light porous soil in a 55- to 60-degree house they can be flowered for Christmas by shading with black cloth from 5 p. m. to 7 a. m. from August 15th to September 15th.
Tr. pkt., 60c; 3 tr. pkts. for \$1.25.

KOCHIA (Summer Cypress). 45,000 s.

***Childsi.** This variety stays a light fresh green throughout the summer until frozen down. This variety pictured on our catalog cover planted with Celosia, Fiery Feather.
Tr. pkt., 10c; 1 oz., 20c.



Kochia Childsi

MISCELLANEOUS ANNUALS — Continued

KOCHIA—Cont.

Trichaphyllo. Not quite as tall or symmetrical as preceding. Turns red in the fall.
Tr. pkt., 10c; 1 oz., 20c.

LANTANA, Dwarf Hybrids Mixed. Must be sown early and with bottom heat.
Tr. pkt., 15c; 1 oz., 60c.

LEPTOSYNE Stillmoni. 25,000 s. 18 in. Nice golden yellow flower for cutting.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

LINARIA Marocanno.

Fairy Bouquet. (Miniature Snapdragon). 10 in. Flowers very early and freely. Bright mixture of colors.
Tr. pkt., 20c; ¼ oz., 45c; 1 oz., \$1.25.



Lobelia, Opal

®**LOBELIA.** Where slight protection from direct sun can be given them, Lobelia are unsurpassed for their bright blue color for edging, hanging, and trailing work. All varieties come quite true.

COMPACTA. Of dwarf compact habit. 6 in.

***Opal.** As the accompanying photo shows, our trial of this the past season was outstanding for vigorous growth. About one-third taller than other compact varieties but much freer flowering and quite compact. Light Forget-me-not blue, about color of Cambridge blue with brightly contrasting white eye in each flower. Very even strain.
Tr. pkt., 35c; ⅛ oz., 75c; ¼ oz., \$1.35.

***Blue Gawn.** Standard deep blue. Very fine.
Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

Blue Stone. Deep blue.
Tr. pkt., 25c; ¼ oz., 75c.

***Cambridge Blue.** Very dwarf light blue with light green foliage.
Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.00.

***Crystal Palace.** Very dwarf deep blue with dark green foliage. Fine.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Emperor William. Deep blue with light green foliage.
Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.60.

***Mrs. Clibran Improved.** Dark blue with contrasting white eye. Light foliage. Very attractive variety.
Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

LOBELIA—Cont.

Mauve Queen. Attractive light lilac with even compact growth.
Tr. pkt., 35c; ¼ oz., \$1.00.

White Lady. Pure glistening white. Very good.
Tr. pkt., 35c; ¼ oz., 75c.

PENDULA. Of trailing or pendulous habit.
***Hamburgio.** Deep blue with dark green foliage.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Sapphire. Deep blue with pronounced white eye. Light green foliage.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Angelina. White with light green foliage.
Tr. pkt., 35c; ¼ oz., 70c.

For Lobelia Cardinalis see Perennial List.

LUPINE. A good spring crop can be had from a January or February sowing. We find the Giant King type the best for greenhouse cut flower work.

***GIANT KING.** Some longer stemmed and earlier flowering than the regular Hartwegis.

Oxford Blue. Rich deep blue.

Sky Blue.

Heliotrope. A pleasing rosy purple shade.

White.
Each: Tr. pkt., 20c; 1 oz., 65c; 4 ozs., \$1.75.

Mixture of above colors.
Tr. pkt., 15c; 1 oz., 50c; 4 ozs., \$1.40.

Sulphureus Superbus. 600 s. Golden yellow. 24 to 30 in.
Tr. pkt., 15c; 1 oz., 45c.

Luteus Ramulus. 300 s. Dwarf yellow, richly fragrant. 15 in.
Tr. pkt., 15c; 1 oz., 45c.

HARTWEGI. 1400 s. The standard cut flower strain.

Dark Blue, Raseus, Sky Blue, White, Mixture.

Each: Tr. pkt., 15c; 1 oz., 35c; 4 ozs., \$1.00.

For other Lupines see Perennial List.

MARIGOLD. See page 11.

MARVEL OF PERU (Mirabilis Jalapa). 325 s. The old-fashioned "Four O'clock." Ours is a dwarf strain—12 to 15 in.—with a bright and varied color mixture.
Tr. pkt., 15c; 1 oz., 25c.

MIGNONETTE. 27,000 s. May be sown in January for a spring cut flower crop, although a fall sowing is better for this purpose.

***Ball Strain.** 2 to 3 weeks earlier and considerably whiter than New York Market.
½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$1.75; 1 oz., \$6.00.

New York Market. A standard cut flower strain.
½ tr. pkt., 60c; tr. pkt., \$1.00; ¼ oz., \$1.75.

MACHET. For summer bedding.

Golden Galiath.

Galiath Red.

Each: Tr. pkt., 15c; 1 oz., 75c.

MIMOSA Pudica. (Sensitive Plant). 4500 s.
Tr. pkt., 15c; 1 oz., 35c.

MIMULUS Tigrinus. (Monkey Flower). Attractively tigered and spotted flowers. Nice as spring pot plants or for bedding in cool climates.
Tr. pkt., 25c; ¼ oz., 75c.

MORNING GLORY. See Convolvulus in this list.

MYOSOTIS (Forget-me-not). 44,000 s. The two varieties listed below will flower considerably earlier than the other types which adds to their usefulness.

***Boll Early.** Not quite as tall as Blue Bird but very free and extra early for winter flowering.
Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$2.85.

***Ruth Fischer.** Clear light blue. Of extra compact and dwarf growth. Excellent for an early spring pot plant.
Tr. pkt., 35c; 1/16 oz., \$1.00.
For other Myosotis see Perennial List.

NASTURTIIUM. Brilliant colors, free flowering on good stems typify the new Double Sweet Scented class and explain their immediate and general acceptance by the home gardener as well as the florist, who shouldn't be without them in the spring for combination work, window boxes, as well as cutting.

DOUBLE GLEAM OR TRAILING TYPE. 175 s. Of semi-trailing habit. The type used for cutting and trailing window box work.

***Golden Gleam.** The original Gleam Nasturtium, golden yellow.
1 oz., 15c; 4 ozs., 35c; 1 lb., \$1.15.

***Scarlet Gleam.** Same as above but a brilliant scarlet.

1 oz., 20c; 4 ozs., 50c; 1 lb., \$1.50.

Fire Gleam. Brilliant, fiery scarlet.

1 oz., 20c; 4 ozs., 50c; 1 lb., \$1.50.

Moon Gleam. Light golden cream.

1 oz., 20c; 4 ozs., 50c; 1 lb., \$1.50.

Orange Gleam. Deep glowing orange.

1 oz., 25c; 4 ozs., 60c; 1 lb., \$1.75.

Salmon Gleam. Delicate golden salmon.

1 oz., 15c; 4 ozs., 35c; 1 lb., \$1.15.

***Gleam Hybrids.** A brilliant mixture of all above varieties with new hybrid variations added.
1 oz., 15c; 4 ozs., 45c; 1 lb., \$1.25.

DWARF DOUBLE CLASS. 175 s. This newer type makes a very attractive dwarf compact, rounded plant. 12 to 15 in. high.

Golden Globe. Same color as Golden Gleam.

1 oz., 25c; 4 ozs., 60c; 1 lb., \$1.75.

Globe of Fire. A brilliant scarlet.

Tr. pkt., 25c; 1 oz., 50c; 4 ozs., \$1.25.

Mixture of above and other colors in this class.

1 oz., 20c; 4 ozs., 50c; 1 lb., \$1.75.

SINGLE VARIETIES. 225 s.

Empress of India. Deep scarlet with dark foliage. Dwarf.

1 oz., 10c; 4 ozs., 30c; 1 lb., \$1.00.

Golden King. Indian yellow with dark foliage. Dwarf.

1 oz., 10c; 4 ozs., 30c; 1 lb., \$1.00.

Dwarf Mixture of all colors in this class.

1 oz., 10c; 1 lb., 75c.

California Giant Mixture. Mixture of all colors in the tall or trailing class.

1 oz., 10c; 1 lb., 75c.

NEMESIA Strumosa Suttoni.

GRANDIFLORA. Large flowered and long stemmed. 14 to 16 in. Fine for spring cutting and tall combination work. Varieties come quite true and are used extensively for greenhouse forcing from a January sowing.

MISCELLANEOUS ANNUALS — Continued



Nosturtium, Bodger's Semi-Double Gleam Hybrids—all colors, and both climbing and compact habit. The climbing kind should be used for greenhouse cutting. No retail grower should be without some of this. Use raised bed.

NEMESIA—Cont.

- *Blue. Tr. pkt., 25c; ¼ oz., 60c.
- Cherry-Red.** Tr. pkt., 25c; ¼ oz., 60c.
- *Orange. Tr. pkt., 25c; ¼ oz., 60c.
- Scarlet.** Tr. pkt., 25c; ¼ oz., 60c.
- Rose.** Rather deep color. Tr. pkt., 25c; ¼ oz., 60c.
- White.** Tr. pkt., 35c; ⅓ oz., 75c.
- *Mixture of all colors in this class. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.
- NANA COMPACTA.** Of more dwarf habit, 6 to 8 in., and branches freely from the base, making attractive rounded specimens. Excellent for pots and combinations.
- *Blue Gem Improved. The outstanding variety for color and habit.
- Aurora.** Carmine-crimson with white. Attractive.
- Fire King.** Scarlet.
- *Orange Prince. A rich bright orange.
- White Gem.** Pure white.
- *Triumph Mixed. A very attractive dwarf mixture with wide range of colors. Each: Tr. pkt., 25c; ¼ oz., 60c.
- NICOTIANA.** (Tobacco Plant).
- *Suaveolens. A small flowered, dwarf compact grower. 18 in. Sweet scented. Tr. pkt., 35c; 1/16 oz., 75c.
- AFFINIS.**
- White.** Sweet scented. Tall. 36 in. Tr. pkt., 15c; 1 oz., 30c.
- *Crimson Bedder. 15 in. Makes a very compact growing yet free flowering plant. Deep crimson-red. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

®*NIEREMBERGIA Hippomanico.

"One of the outstanding rock and border plant introductions in recent years" is our opinion of this new-comer after a year's trial of it here at West Chicago. From a February sowing these little 4- to 6-in., rounded, neat plants started to flower the middle of July and kept themselves covered with small 1½-in. light blue flowers right up until frost. Stands considerable shade under which the color deepens to a lilac shade. Should make an excellent little spring pot plant too. Better get acquainted with Nierembergia Hippomanica for border work.

Tr. pkt., 50c; 1/32 oz., \$1.75.

NIGELLA (Damascena Double). 11,000 s. **Miss Jekyll** (Love-in-a-Mist). Cornflower-blue.

Mixture. Contains shades of light, dark blue, and white. Each: 1 oz., 15c.

PANSY

25,000 s. We have a complete new crop seed stock of all varieties listed below. A January sowing of both Pansies and Violas will make nice small plants to sell out of flats or pots during May. For larger plants, seed should be sown in early fall.

***Ball Giant Mixture.** Our extensive annual trials of "All the Best" in Pansy strains from all over the world convince use that this is the finest "All-purpose" strain available. Giant flowers with an exceptionally rich mixture of the newer bronzy red with blues and yellows in proportion.

Tr. pkt., 40c; ¼ oz., \$1.50; ½ oz., \$3.00; 1 oz., \$5.50; 4 ozs., \$20.00.

***Boll Giant Mixture Dwarf.** Identical to above but with a distinctly dwarfer and more compact habit.

Tr. pkt., 50c; ¼ oz., \$2.00; ½ oz., \$3.50; 1 oz., \$6.00.

Engelmann's Special. Dwarf, compact, 5-blotched strain for bedding.

Tr. pkt., 50c; ¼ oz., \$2.50; ½ oz., \$4.50; 1 oz., \$8.00.

***Engelmann's Giants.** A very good large flowered, fairly dwarf strain.

Tr. pkt., 50c; ¼ oz., \$2.50; ½ oz., \$4.50; 1 oz., \$8.00.

Maple Leaf Giants. An extra large flowered standard strain of true Giants.

Tr. pkt., 50c; ¼ oz., \$2.25; ½ oz., \$4.00; 1 oz., \$7.00; 4 ozs., \$25.00.

Improved Swiss Giants. A standard large flowered mixture.

Tr. pkt., 50c; ¼ oz., \$1.75; ½ oz., \$3.25; 1 oz., \$6.00; 4 ozs., \$20.00.

Roggli Giant Mixture. A high-class and well-known strain for either bedding or cut flower purposes.

Tr. pkt., 50c; ¼ oz., \$1.50; ½ oz., \$2.50; 1 oz., \$4.50; 4 ozs., \$15.00.

Steele's Jumbo Mixture. Extra large flowered strain with heavy long stems. Our supply comes direct from the originator and grower, Mr. Steele.

Tr. pkt., 75c; ⅓ oz., \$1.75; ¼ oz., \$3.25; ½ oz., \$6.25; 1 oz., \$12.00.

PANSY—Cont.

SWISS GIANTS. In separate colors.

Alpenglow. Rich garnet-red.

Tr. pkt., 50c; ¼ oz., \$1.75; ½ oz., \$3.25; 1 oz., \$6.00.

Rhinegold. Large yellow with brown blotch.

Tr. pkt., 50c; ¼ oz., \$1.75; ½ oz., \$3.25; 1 oz., \$6.00.

Lake of Thun. Rich deep blue with dark center.

Tr. pkt., 50c; ¼ oz., \$1.50; ½ oz., \$2.75; 1 oz., \$5.00.

Swiss White. (Mont Blanc). Slightly creamy white.

Tr. pkt., 50c; ⅓ oz., \$1.00; ¼ oz., \$1.85; 1 oz., \$7.00.

SMALL-FLOWERED BEDDING VARIETIES.

***Sunset.** An unusually bright bronzy red shade in a strain that comes practically 100 per cent true to its dwarf bedding habit.

Tr. pkt., 75c; ⅓ oz., \$1.50; ¼ oz., \$2.75; ½ oz., \$4.75; 1 oz., \$8.00.

Fire Beacon. Very unusual shade, bright wallflower-red with a touch of orange, similar in effect to Wallflower Fire King.

Tr. pkt., 50c; ⅓ oz., \$2.25.

Golden Queen. Clear yellow with some marking.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

Lord Beaconsfield. A standard blue.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

***Snow Queen.** Clear paper-white, fine.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

PAPAVER: See Poppy in Annual and Perennial Lists.

PENTSTEMON (Beard Tongue). 55,000 s.

Southgate Gem. Glowing scarlet.

Tr. pkt., 35c; ¼ oz., \$1.00.

GLOXINOIDES.

Rose Shades.

Tr. pkt., 35c; ¼ oz., \$1.00.

Sensation Mixture.

Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.75.

ORNAMENTAL PEPPER. See Solanum.

®PHLOX Drummondii. (Annual). 14,000 s.

For ease of culture, brilliant positive colors and strains that come true to these colors, annual Phlox can't be beaten. We regularly sow our Phlox trials here at West Chicago right out in the field where they are to flower about the middle to end of May, and they are a riot of color in early August. Certainly this can be said of few outdoor bedding plants that stand our hot mid-summer conditions! The Grandifloras have some value for cutting too. Phlox doesn't stand transplanting well when their roots have to be disturbed, which leads to the practice of sowing in April in pots for earlier flowering outdoors.

GRANDIFLORA. 15 to 18 in. with us.

***Albo.** Pure white.

Atropurpurea. Deep purple.

Carnea. Blush-pink.

***Chamois Rose.** A nice soft pastel chamois shade with deep center and white eye.

***Cinnobor.** Brick-red with dark eye.

***Caccineo.** Fiery red.

MISCELLANEOUS ANNUALS — Continued

POPPY—Cont.

Annual Single Mixture.

Tr. pkt., 10c; 1 oz., 20c.

ICELAND (P. Nudicaule). 150,000 s. Lends itself well to greenhouse forcing from a January sowing. Will also flourish outdoors.

***The Emperor**. (New). Brilliant orange. Distinctly improves El Monte in flower size and long, stiff stems. Excellent. Tr. pkt., 25c; 1/8 oz., 50c; 1/4 oz., 85c.

***The Empress**. (New). Of the same extra large flowered and long-stemmed type as The Emperor but in shades of salmon-rose.

Tr. pkt., 35c; 1/8 oz., 75c; 1/4 oz., \$1.35.

***Yellow Wonder** (Amurense). Large buttercup-yellow shade.

Tr. pkt., 25c; 1/8 oz., 50c; 1/4 oz., 85c.

El Monte. Standard tangerine-orange.

Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

***Sandford's Giants**. We find this the finest hybrid strain we have; for indoor spring flowering sow in January.

Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

Fakenham Hybrids. Extra large flowered and long stemmed.

Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.

Gartref Strain. A large flowered mixture of pastel shades with picotee edges.

Tr. pkt., 25c; 1/4 oz., 65c.

SHIRLEY. (P. Rhoeas). 70,000 s.

***American Legion**. Single orange-scarlet. Tr. pkt., 15c; 1 oz., 35c.

Double begonia-flowered Sweet Briar. Deep rose-pink.

Tr. pkt., 15c; 1 oz., 60c.

For Oriental Poppy see Perennial List.

®**PORTULACA**. Very excellent for outdoor bedding or border work. Easily grown from seed. Should be sown direct; will flower 30 to 45 days from seed sowing in late spring or early summer. The following separate color strains coming nearly 100 per cent true can be used in creating definite landscape and garden color effects.

Single Mixture.

Tr. pkt., 15c; 1 oz., 50c.

***DOUBLE**. Our trials of double strains produce 80 to 90 per cent true double flowers.

Red, White, Yellow.

Prices each: Tr. pkt., 25c; 1/4 oz., 70c; 1 oz., \$2.35.

Mixture.

Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

RHODANTHE. 13,000 s. Everlasting. Semi-double flowers. 12 in.

Atrosanguinea. Deep carmine. Good bright color.

Tr. pkt., 25c; 1/4 oz., 65c; 1 oz., \$2.15.

Maculata Rose. Dark centered.

Tr. pkt., 15c; 1 oz., 50c.

RICINUS (Castor Bean).

Borboniensis Arboreus. 55 s. 10 ft.

1 oz., 15c; 4 ozs., 50c; 1 lb., \$1.50.

Zanzibariensis Enormis. 25 s. Carmine. 12 ft.

1 oz., 20c; 4 ozs., 60c; 1 lb., \$2.25.

RUDBECKIA, ***My Joy**. 85,000 s. Large single brilliant orange-yellow with dark center. Nice for cutting.

Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.50.

For other Rudbeckia see Perennial List.

SAINTPAULIA (African Violet). Special care is required to germinate the fine seed of this attractive pot plant.

Cordata. Lavender-violet.

Ionantha. Deep blue.

Each: Tr. pkt., \$1.00.

SALPIGLOSSIS. Besides an attractive garden flower, Salpiglossis furnish the retail grower with good cutting material either from a February sowing indoors or a later one grown outdoors during the summer. If plants must be transplanted, the seed should be sown in pots as they don't like transplanting. With the advent of the new dwarf strains for bedding another use is added to this richly colored annual.

DWARF GIANT FLOWERED. (New—MacDonald). This new class gets around three-fourths as tall as the regular Emperor strain, making it useful for bedding and border work.

Blue and Gold, Bright Scarlet, Scarlet and Gold, Mixture.

Prices each: Tr. pkt., 25c; 1/4 oz., 75c; 1 oz., \$2.50.

EMPEROR. 30 in.

Brown and Gold, Rose and Gold, Scarlet and Gold, Violet and Gold, White and Gold, Yellow and Gold, Emperor Mixed.

Prices on above Emperor varieties: Tr. pkt., 15c; 1/4 oz., 30c; 1 oz., 80c.

SALVIA. The full advantage of our extensive West Chicago trials, as well as inspections of all the principal seed fields of the world, is reflected in the quality of our strains of bedding Salvia. We are confident our list comprises "All the Best—"

SPLENDENS. 12,000 s.

***Firebrand**. Our earliest flowering dwarf and compact variety. 12 to 15 in. with us.

Tr. pkt., 50c; 1/4 oz., 85c; 1 oz., \$3.00.

***America** (Globe of Fire). Our strain of this standard variety grows about 18 in. with us. Absolutely even and uniform.

Tr. pkt., 35c; 1/4 oz., 60c; 1 oz., \$2.00; 4 ozs., \$6.50.

Harbinger. Quite similar to Firebrand.

Tr. pkt., 35c; 1/4 oz., 70c; 1 oz., \$2.50.

Rocket. About same height as Firebrand with more foliage and not quite as free flowering.

Tr. pkt., 50c; 1/4 oz., \$1.00.

Bonfire. Medium tall. 30 in., very uniform. Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75; 4 ozs., \$5.00.

Splendens, Tall. 36 to 40 in. Not early flowering.

Tr. pkt., 25c; 1/4 oz., 40c; 1 oz., \$1.50. 4 ozs., \$4.00.

Maroon Prince. Rather heavy maroon shade. 30 in. Not very free flowering. Tr. pkt., 35c; 1/4 oz., 85c; 1 oz., \$3.25.

FARINACEA. 24,000 s.

***Blue Bedder** (Blue Salvia). 36 in., with long stems suitable for cutting. In flower middle to end of July from early spring sowing.

Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.75.



Phlox should be sown direct in our latitude for best results outdoors.

PHLOX—Cont.

Leopoldi. Fairly deep rose with white center and dark eye.

Lilac with white eye. A pleasing shade.

***Rosea**. Medium rose-pink with dark center. Nice.

Stellata Splendens. Brilliant scarlet with white eye.

Vermilion.

Violet.

Each: Tr. pkt., 20c; 1/4 oz., 30c; 1 oz., \$1.00.

***Gigantea Art Shades**. With flowers 50 per cent larger than the regular Grandifloras. Mixture of pastel shades with white eyes.

Tr. pkt., 25c; 1/4 oz., 50c; 1 oz., \$1.50.

Cuspidata Mixture (Star of Quedlinburg). A bright mixture in this novel star-shaped type.

Tr. pkt., 20c; 1/4 oz., 30c; 1 oz., \$1.00.

Special Mixture of all colors in this tall class.

Tr. pkt., 20c; 1/4 oz., 30c; 1 oz., \$1.00.

NANA COMPACTA. Of dwarf compact growth, 6 in.

Apricot. Deep apricot-cream shade. Nice.

Atropurpurea. Deep purple.

***Chamois**. Soft pastel chamois shade with deep center.

Defiance. A cinnabar shade of salmon-scarlet.

***Fireball**. Real fiery crimson.

Isabellina. Creamy yellow.

***Mirabilis**. Attractive bright salmon-rose.

***Sky Blue** with white eye. Nice shade.

***Snowball**. Good clear white.

Violet.

***Cecily Mixed**. The popular semi-dwarf mixture. Excellent stock.

Each: Tr. pkt., 35c; 1/4 oz., 75c; 1 oz., \$2.50.

Nano Compacta Mixture of above varieties.

Tr. pkt., 25c; 1/4 oz., 60c; 1 oz., \$2.00.

POPPY.

Peony-Flowered Mixture. Double. 3 ft. Tr. pkt., 10c; 1 oz., 20c.

Carnation-Flowered, Fairy Blush Hybrids. 71,000 s. Double. 3 ft. Mixture of light pink shades.

Tr. pkt., 10c; 1 oz., 20c.

MISCELLANEOUS ANNUALS — Continued

SALVIA—Cont.

Pale Blue. Slightly lighter than above and not quite as compact growing.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

HORMINUM.

Oxford Blue. Top leaves of each branch turn a deep rich Oxford-blue.

Tr. pkt., 25c; 1 oz., \$1.00.

®***SANVITALIA Procumbens.** 50,000 s. Double creeping Zinnia. 4-in. golden yellow and small flowered. Nice.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

SAPONARIA Vaccaria. 5500 s. 18 in. Gypsophila-like flowers.

White, Rose.

Each: 1 oz., 15c; 4 ozs., 35c.

For Saponaria Ocymoides see Perennial List.

SCABIOSA. 4500 s. No retail grower should be without a liberal planting of annual Scabiosa. Long stemmed, pleasing colors, and free flowering make them valuable for cutting. Do very well for spring flowering in a cool house or outdoors during the summer where they are considerably improved by cloth house protection. Respond very well to electric lights in the spring for earlier flowering. For a complete variety of attractive colors we recommend our Giant Hybrid Mixture.

***Agerotum Blue.** Good rich azure-blue. Large flowered and one of the best.

***Cherry Red.** A bright color.

King of the Blacks. Deep rich maroon.

***Loveliness.** Extra large flowered deep salmon-pink. Excellent color and variety.

Shasto. Good pure white.

***Giant Hybrid Mixture.** A special strain containing only the new large flowered varieties. Well balanced in good cut flower colors.

Tom Thumb. 10 in. Compact, dwarf plants for bedding or edging. Mixture of colors.

Prices on all Scabiosa: Each: Tr. pkt., 15c; 1 oz., 50c.

For other Scabiosa see Perennial List.

SCHIZANTHUS. 45,000 s. Interest in this old-fashioned plant has been decidedly on the up-grade, principally since the advent of new extra large flowered, and brilliantly colored strains now available and listed below.

***Giant Blotched Strain.** Particularly fine for cutting because of its brilliant colors; each flower having a dark blotch in its center that contrasts effectively with the outer petals that are in pink or rose shades. Two to three weeks earlier flowering is important too. Fine pot plants may be obtained by keeping well pinched. Tr. pkt., 50c; 1/16 oz., \$1.00.

***Dr. Badger's Hybrids.** (Improved stock). Medium dwarf growth, large flowered with very bright color mixture makes this notable strain a very excellent all-round one. We consider it our finest. Tr. pkt., 40c; ¼ oz., \$1.00.

Monarch Strain. A new extra large flowered strain coming to us from Hurst and Son of England, that looked quite favorable in our trials last season. Originator's packets: 60c.

SCHIZANTHUS—Cont.

Danbury Park Strain. A very fine large flowered English strain.

Tr. pkt., \$1.25.

Pansy Flowered. An attractive brightly colored mixture with flat, pansy-shaped flowers.

Tr. pkt., 35c; ⅛ oz., \$1.00.

***Bridal Veil.** Pure papery white, medium dwarf habit.

Tr. pkt., 35c; ¼ oz., \$1.00.

Brilliance. A bright amaranth-red.

Tr. pkt., 50c.

Compactus, Reddish Shades. Medium dwarf, in shades of rich deep rose and reds.

Tr. pkt., 35c; ¼ oz., \$1.00.

Pink Shades.

Tr. pkt., 35c; ¼ oz., \$1.00.

Purple Shades.

Tr. pkt., 35c; ¼ oz., \$1.00.

Rose and Amber Shades.

Tr. pkt., 35c; ¼ oz., \$1.00.

***Ball Brilliant Blend.** A mixture we make up ourselves of varieties of medium dwarf habit, suitable for either cutting or, when well pinched back, for pot plants. A well-balanced mixture of all the above shades, including a good percentage of the newer large flowered mixtures.

Tr. pkt., 35c; ⅛ oz., 75c; ¼ oz., \$1.15.

***Ball Dwarf Mixture.** A strain of our own development, strictly for pot plant work. A January sowing will still make nice 4-in. pot plants late in the spring. 10 to 12 in.

Tr. pkt., 50c; ⅛ oz., \$1.00.

SHAMROCK. 38,000 s. Sow January 1st in Carnation house temperature (cooler after germination) for 2-in. St. Patrick's Day plants. Use 3 or 4 seedlings in a pot. Tr. pkt., 15c; 1 oz., 50c.

SILENE Pendula Mixed. Nice dwarf edging or bedding plant. 6 in.

Tr. pkt., 15c.

SMILAX. 7800 s. Well-known greenhouse climber.

Tr. pkt., 20c; 1 oz., 50c; 4 ozs., \$1.50; 1 lb., \$5.00.

SOLANUM. To insure an even, first-class strain of this valuable pot plant, we have developed our own strains here at West Chicago. Our method of handling them for a Christmas crop consists of sowing the seed in February, shifting along to 4's, in which they are summered, plunging pots outdoors, lifting and shifting into 5's or 6's in September. Pinching back once or twice may be resorted to during the spring and early summer, and a 50-deg. house should mature a good crop of berries by the holidays.

***Christmas Cherry.** 12,000 s. Ball Strain. A compact growing strain that fruits quite freely.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

***Christmas Pepper.** 9,000 s. Compact growing with brilliant purple and red berries.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Bird's Eye Pepper. 12,500 s. Not quite as compact as the above two. Produces many very small red berries.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Miniature Bell. Interesting 1- to 2-in. bell-shaped fruit.

Tr. pkt., 35c; ¼ oz., \$1.00.



Statice Suworowi
The pleasing rose-pink color of this "rot tail" type of Statice gives it distinctive cut flower and pot plant value.

STATICE

Bonduelli. 350 seed heads. Similar to the Sinuatas, but yellow.

Tr. pkt., 15c; 1 oz., 25c; 1 lb., \$2.25.

Sinensis. 17,000 s. 18 in. Pure white with canary-yellow. Quite attractive.

Tr. pkt., 25c; 1 oz., 75c; 4 ozs., \$2.50.

Suworowi (Russian or Rat Tail Statice). Fine for cutting during the late spring from a January sowing.

Tr. pkt., 15c; 1 oz., 60c; 4 ozs., \$1.75.

SINUATA. 350 seed heads. A mid-winter sowing brings this attractive class into flower in late spring. Flowers grown outdoors for drying extensively in southern climates.

***Market Grower's Blue.** Good even deep blue shade. Excellent stock.

Kampf's Tall Improved. The standard long-stemmed blue.

Atrocaerulea. Described as "a compact growing delphinium-blue."

True Blue. The standard blue.

***Lavender Queen.** A very pleasing shade of medium lavender. Good grower.

Rosea Superba. A rosy lavender shade.

White.

***New Hybrids Mixture.** A very attractive mixture of all the standard colors, as well as many new hybrid shades.

Prices on all Sinuata varieties: Each, tr. pkt., 15c; 1 oz., 25c; 1 lb., \$2.50.

For other Statice see Perennial List.

SUNFLOWER. See Helianthus in this list.

THUNBERGIA. Nice as a climber or in hanging baskets.

Alata (Black-Eyed Susan). 1100 s. Shades of yellow, buff, and orange, all with black centers.

Tr. pkt., 15c; 1 oz., 65c; 4 ozs., \$1.75.

Gibsoni. 500 s. Extra large flowered rich deep orange. Later flowering than Alata. 25 seeds, 65c; 50 seeds, \$1.20; 100 seeds, \$2.25; 1 oz., \$9.00.

MISCELLANEOUS ANNUALS — Continued

TITHONIA Speciosa. (Golden Flower of the Incas). 3500 s. Winter-flowering in a Carnation house with roots confined to a shallow raised bed. Attractive single orange-red flowers. Ours is the early flowering strain.
Tr. pkt., 25c; ¼ oz., 90c.

TOBACCO PLANT. See Nicotiana.

TORENIA. Rich combination of deep blue with deeper blotches on lip. Nice spring pot plant or for bedding where summers are not too hot.

Fournieri. Standard variety.

Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

Fournieri Compacta. A distinctly dwarf form of above.

Tr. pkt., 25c; ⅛ oz., 50c; ¼ oz., 85c.

TRACHELIUM Coeruleum. Nice deep blue for either cutting on a raised bed from a January start, or in pots.

Tr. pkt., 35c.

UMBRELLA PLANT. See Cyperus.

URSINIA Anethoides. 19,000 s. Early flowering tender annual. Brilliant orange flowers with purple center. 10 in. For bedding or spring pot work.

Tr. pkt., 25c; ¼ oz., 60c.

VENIDIUM. 65,000 s. Should be sown in the fall for spring forcing indoors. Of irregular germination.

Fastuosum. Brilliant orange, dark center. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.25.

Ball Hybrids. A very interesting and varied array of colors ranging from silvery white through oranges and salmons.

Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.25.

VERBENA. The following with a few noted exceptions come quite true. Seed requires an early start with bottom heat. For pot plants in spring use the Compactas. For outdoor bedding effects some of the newer starred (*) varieties are very excellent. Cutting propagation may be practiced from extra nice specimens.

GRANDIFLORA. 10,000 s. Large flowered and of spreading growth.

Beauty of Oxford Hybrids. Shades of extra deep bright pink with slight white eye. Very excellent.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Blue. Deep marine color with white eye.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Cormine-Rose. Deep bright shade, nearly scarlet. White eye.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Coccineo. Scarlet with some white eye.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

***Crimson Glow.** Extra deep rich crimson. No eye.

Tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.75.

***Donnebrog.** Bright scarlet with large white eye. Very attractive.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Etno. Scarlet with some white eye.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Florodole Beauty.** Extra large flowered in attractive salmon-pink shades.

Tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.25.

***Lavender Glory.** Very attractive large flowered lavender. About 25 per cent white rogues.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

VERBENA—Cont.

Lucifer. Scarlet. Spectrum Red better.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Luminoso. Deep salmon-shaded pink with white eye.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Moyflower. Medium light pink.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

Pure White. Good stock.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

***Rosea Stellota.** Clear deep pink with white eye. Very free flowering and a strong grower.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Salmon-Pink.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

***Spectrum Red.** Extra bright rich scarlet, no eye. Large flowered. Some lighter than Crimson Glow.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Mixture of above colors.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

COMPACTA. 10,000 s. A compact growing class particularly for bedding, border and pot work. Varieties differ some in height and habit. Our descriptions are from our trial ground notes.

Carmine Ball. Extra dwarf compact carmine-scarlet. 4 to 5 in.

Chamois. Light creamy apricot. 6 to 8 in.

Fireboll. Bright fiery scarlet. Extra dwarf and compact. 4 to 5 in.

***Snowboll.** Pure white, free flowering. Medium dwarf, 6 to 8 in.

Mixture of all colors in the extra dwarf compact class.

Prices on above Compacta varieties: Each tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Violet Bouquet.** Of distinctly upright habit. 10 to 12 in.

Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.75.

***Roya Bouquet.** 12 in. Upright habit. Extra bright mixture.

Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

VARIOUS VERBENAS.

Aubletio. (Canadensis). Makes heavy row of foliage, 12 in. high, flowers extra early but during the middle of our hot mid-summer, is off crop. Rosy lilac.

Tr. pkt., 20c; ¼ oz., 35c.

***Venoso.** 60,000 s. An upright deep lilac. 8 to 10 in. Stems long enough for cutting and flowers quite freely and continuously with us throughout the summer.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Venoso Lilacino. 60,000 s. Same as above but very light blush-lilac shade.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Erinoides. (Moss Verbena). 30,000 s. A small flowered lavender variety. Its extra strong growth makes a 3- to 4-ft. wide row in our trials. 10 in. high.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

Lemon Verbena. (Lippia or Aloysia Citriodora). The old-fashioned garden favorite with a pungent lemon odor. Small white flowers.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

VINCA Rosea (Periwinkle. 21,000 s. Few of the plants in our trial ground give as much show with little care as the old-fashioned Periwinkles. From an early start, will flower from mid-summer on, increasing right up until frost. Their light green foliage remains fresh and bright throughout even the severe drought periods. One of the few annual bedding plants that can be depended upon to give general satisfaction. 12 to 15 in.

Alba Pura. Pure white.

Albo Oculata. White with pink center.

Delicata. Light pastel pink shade.

***Pink.** The standard medium deep pink.

Prices on above: Each tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

Mixture of above varieties.

Tr. pkt., 15c; 1 oz., 60c.

®VIOLA Cornuta. (Miniature Pansy). 24,000 s. As easily grown as Pansies and earlier and more free flowering. Very nice for bedding and come quite true. From a January sowing good-sized flowering plants can be had in late spring.

Apricot. Large flowered, true apricot shade. Tr. pkt., 35c; ⅛ oz., 60c; ¼ oz., \$1.10; 1 oz., \$4.00.

***Arkwright Ruby.** Crimson-scarlet with dark center. An original and highly attractive shade in Violas. Tr. pkt., 35c; ⅛ oz., \$1.15; ¼ oz., \$1.80; 1 oz., \$6.00.

Black Prince. Deep violet-blue.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Chontreyland.** Extra large flowered true apricot. Best variety in this color.

Tr. pkt., 35c; ⅛ oz., 75c; 1 oz., \$5.00.

G. Wermig. Rich violet-blue, between Jersey Gem and Mauve Queen. Tr. pkt., 50c; ⅛ oz., 85c; ¼ oz., \$1.60; 1 oz., \$6.00.

***Jersey Gem.** (True stock). Attractive deep Cattleya. Tr. pkt., \$1.00; 1/16 oz., \$1.50; ⅛ oz., \$2.75; ¼ oz., \$5.00.

***Luteo Splendens.** Clear golden yellow.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Mouve Queen. Light cattleya. Very true. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Papilio.** Blue and white. Extra dwarf and free flowering. Small flowered.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Puck. Purple with yellow wings and dark pencilings. Dwarf and small flowered.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

***White Perfection.** Small, pure white.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

W. H. Woodgate. Bright violet. Very fine. Tr. pkt., 50c; 1/16 oz., \$1.75; ⅛ oz., \$3.25.

Large-Flowered Mixture. Complete color range.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

VIRGINIA STOCK, Compacto Mixture. Attractive compact bedding plant. 8 in. Tr. pkt., 10c; 1 oz., 40c.

WALLFLOWER. Annual. 14,000 s. In our latitude should be sown in October for spring flowering. Choice, richly fragrant cut flower. We enclose cultural notes with each order for seed.

***Gold Stondord.** Deep golden yellow. The best and standard commercial variety.

Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

Golden Yellow Flaked Brown.

Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

MISCELLANEOUS PERENNIALS

® indicates plants suitable for rock gardens.



An easily grown useful hardy perennial—
Achillea Filipendula, Parker's variety

ACHILLEA (Ptarmica).

***The Pearl.** The standard double white for cutting. 30 in.
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Perry's White. The preferred variety.
Tr. pkt., 35c; ¼ oz., \$1.10.

Tomentosa Aureo. 6 to 8 in. Finely cut foliage. Golden yellow flowers in umbels.
Tr. pkt., 50c; ⅛ oz., \$1.25.

***Filipendulo.** (Eupatorium). **Parker's Variety.** See Novelty list for further description. Attractive deep golden yellow flowers in umbels. 4 ft. If allowed to fully open on plants, may be dried. Useful for fall cutting. (See cut above).
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

ACONITUM Fischeri. (Monkshood). 9500 s. Deep blue spikes. 3 ft. Seed must be sown outdoors and frozen over winter for good germination.
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

®**AETHIONEMA Grondiflorum.** (Persian Candytuft). 19,000 s. Free flowering light rosy lilac. Likes a light sandy soil, well exposed. 8 to 10 in.
Tr. pkt., 50c.

AGATHEA Coelestis. (Felicia or Blue Daisy). 27,000 s. 24 to 30 in. Seed must be sown outdoors and frozen over winter for good germination.
Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

ALYSSUM.

***Soxotile Compactum.** 40,000 s. Golden yellow. 12 in. Excellent for rock gardens or spring border work. Flowers middle to end of May.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 85c.

Moellendorffionum. 58,000 s. Dwarf yellow. 3 to 4 in. Very attractive.
Tr. pkt., 35c; 1/16 oz., 75c.
For other Alyssum see Annual List.

ANCHUSA.

Myosotidifloro. 15 in. Forget-me-not blue.
Tr. pkt., 50c; ¼ oz., \$1.75; 1 oz., \$6.00.

Itolico, Dropmore Stroin. 1100 s. 6 ft. Blue. Of cut flower value.
Tr. pkt., 15c; 1 oz., 50c.

***Itolico Grondifloro, Picotee.** Same as preceding. attractively striped white with blue.
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

For *Anchusa Capensis* see Annual List.

ANTHEMIS Kelwoyi. (Hardy Marguerite). 85,000 s. Yellow Daisy flowers produced first season from an early sowing.
Tr. pkt., 15c; 1 oz., 50c.

®AQUILEGIA

Introduction of several large-flowered varieties in new colors has renewed interest in this old garden favorite. The dwarf spurless type represented by *Glandulosa Vera* make excellent bedding and border material.

Alpino. 2 ft. Blue.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Chrysotho, Silver Queen. Long-spurred white.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Glonduloso Vero.** 18 in. Large spurless flowers, blue with white center. Try it for bedding and border work.

Tr. pkt., 75c; 1/16 oz., \$1.85.

Joetschoui. Yellow with red spurs.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Longissimo.** Extra long (4 in.) spurs. Shades of yellow. Quite a distinctive novelty.

Tr. pkts. only, 50c.

COERULEA. The long-spurred, large-flowered type.

Blue. (Rocky Mountain Columbine). Sky-blue with white outer petals.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Condidissimo, Snow Queen.** Our best pure white variety. Fairly dwarf.

Tr. pkt., 35c; ¼ oz., \$1.00.

***Crimson Stor.** Deep blood-red with white outer petals. Very attractive.
Tr. pkt., 50c; ⅛ oz., \$1.20; ¼ oz., \$2.00; 1 oz., \$7.00.

Rose Queen. With white outer petals.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

***Mrs. Scott Elliott's Hybrids.** The popular long-spurred mixture.

Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.00.

Mixture of all colors in this class.

Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

®**ARABIS Alpino.** (Rock Cress). 150,000 s. Dwarf white. 12 in.
Tr. pkt., 15c; 1 oz., 50c.

ASCLEPIAS Tuberoso. 4500 s. 2 ft. Fine orange for cutting. Requires good drainage.

Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

***ASPARAGUS Verticillotus.** 600 s. A valuable completely hardy source of green material during the summer. Light finely cut foliage. Seed germinates in 3 weeks in a warm house. Two to three years required to make good growth.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

For other Asparagus see Annual List.

ASTER. (Hardy). The first two varieties furnish very nice material for rock garden work as well as being long-stemmed for cutting. Very hardy. June flowering.

Dork Beauty. (Alpinus). 26,000 s. Single deep blue. 12 in.

Tr. pkt., 50c; ⅛ oz., \$1.50.

***Wortburg Stor.** (Subcoeruleus). 15,000 s. Lighter than Dark Beauty and longer stemmed and larger flowered.
Tr. pkt., 50c; ⅛ oz., \$1.75.

Novi-belgi. New Hybrids. Fall flowering.
Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.00.

®**BELLIS** (Perennis). (Double English Daisy). 6 in. For spring-flowering plants, should be sown in the fall and carried in frames. The following are of the large-flowered Monstroza type.

Red, Rose, White. Each:

Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.25.

Mixture.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

BOLTONIA Lotisquomo. 95,000 s. Delicate pink. 4 to 5 ft.

Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

CALLA LILY. (Elliottiana). 450 s. Yellow. Seed germinates readily, requires two years to flower from seed.

Tr. pkt., 50c; ¼ oz., 85c; 1 oz., \$2.75.

CAMPANULA.

Pyramidolis. (Chimney Campanula). Erect pyramidal habit. 5 ft. Mixture of colors.
Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

®**CARPATICA.** Dwarf for rock gardens. 12 in. Perennial.

Blue, White, Mixture.

Each: Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

MEDIUM SINGLE. (Canterbury Bells). 3 ft. Biennial.

Blue, Lilac, Rose, White.

Each: Tr. pkt., 15c; 1 oz., 50c.

Mixture.

Tr. pkt., 15c; 1 oz., 40c.

MEDIUM CALYCANTHEMA. Double or Cup-and-Saucer varieties. 3 ft. Biennial.

Dork Blue, Light Blue, Rose, White.

Each: Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.40.

Mixture. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.25.

PERSICIFOLIA. 30 in. Perennial. One of the most satisfactory perennial Campanulas.

Albo, White; Coeruleo, Blue; Mixture.

Each: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

For other Campanula see Annual List.

CANDYTUFT. See Iberis.

CARNATION, Grenodin. 14,000 s. Needs winter protection. 20 in. Good for cutting.

Pink, Red, Mixture.

Each: Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

CATANANCHE Coeruleo. 16,000 s. Everlasting. 30 in. Light lavender-blue Centaurea-like flowers. Good for cutting either indoors or outdoors. Flowers freely first season.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

CENTAUREA Montono. 1600 s. Cornflower-blue. 24 in. Large flowered.

Tr. pkt., 15c; 1 oz., 50c.

For other Centaurea see Annual List.

®**CERASTIUM Tomentosum.** 42,000 s. Silvery white foliage. 10 to 12 in. May flowering.

Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

MISCELLANEOUS PERENNIALS—Continued

CERASTIUM—Continued.

***Columnae.** 5 in. Extra dwarf, compact and free flowering. Excellent for border and rock garden work.
Tr. pkt., 35c; ¼ oz., 75c.

CHEIRANTHUS Allioni. 19,000 s. Free flowering deep orange Wallflower. 18 in.
Tr. pkt., 10c; 1 oz., 30c.

CHRYSANTHEMUM.

Korean Hybrids. Hardy, free October and November flowering single and semi-double types in a mixture of autumn shades. 20 to 30 in.
Tr. pkt., \$1.00; ½ oz., \$2.00.

Japonicum. A February sowing of this popular strain flowers in October. Very free flowering and attractive.
Tr. pkt., 50c; ½ oz., \$1.00.

For Chrysanthemum Segetum, etc., see Annual List.

COREOPSIS (Grandiflora). 11,000 s. The newer large flowered semi-double varieties have added considerably to the attractive usefulness of this old timer.

***Sunburst.** (New Gold). A very excellent semi-double strain for cutting. See Novelty list for further description.
Tr. pkt., 20c; ¼ oz., 35c; 1 oz., 90c.

***Mayfield Giant.** Extra large deep golden yellow single.
Tr. pkt., 15c; ¼ oz., 30c; 1 oz., 65c.

Lanceolata. The standard single variety.
Tr. pkt., 15c; 1 oz., 30c.

DAISY. The following varieties are listed in order of their flowering season. Being completely hardy, Daisies make excellent cut flowers and may be forced in spring either in frames or indoors.

Elder. Comes quite true.
Tr. pkt., 20c; 1 oz., 75c.

***June Marguerite.** Very good.
Tr. pkt., 20c; 1 oz., 75c.

Spring Marguerite.
Tr. pkt., 20c; 1 oz., 75c.

DAISY—Continued.

***Mayfield Giant.** Quite large flowered.
Tr. pkt., 25c; 1 oz., 90c.

Alaska. The standard Shasta Daisy.
Tr. pkt., 25c; 1 oz., 90c.

Double Fringed. Comes about 50 per cent true double types. Good specimens should be propagated by division.
Tr. pkt., 50c.

Conqueror. Giant late white.
Tr. pkt., 20c; 1 oz., 80c.

DELPHINIUM (Elatum)

For spring forcing seed should be sown the previous summer and clumps brought in late in fall. The standard strains for forcing are, of course, of the Belladonna type, although the new hybrid strains add considerable value to Delphiniums for outdoor or cloth house culture during the summer.

***Belladonna Improved.** 9,500 s. The standard improved strain of light blue.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 1 lb., \$24.00.

***Lamartine.** A new extra bright dark blue with light eye, of same free flowering type as Belladonnas. Good for forcing.
Tr. pkts. only, 50c.

Belladonna. The original or "regular strain."
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.65; 4 ozs., \$4.50.

Bellamasum. The standard deep blue.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.65; 4 ozs., \$4.75.

Iceberg. A good white variety.
Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.50.

***Blackmare and Langdan Hybrids.** 13,000 s. A very excellent free flowering hybrid strain for cut flower work. A varied and attractive mixture of colors.
Tr. pkt., 50c; ¼ oz., 90c; 1 oz., \$3.15; 4 ozs., \$8.00.

Wrexham or Hollyhack Strain. Produces extra large tapering spikes. Double.
Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$5.00.

Gold Medol Hybrids. The standard hybrid mixture.
Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

GIANT PACIFIC HYBRIDS. (V. & R.). 12,000 s. Originator's stock. Definite points of superiority such as fully double flowers, a large degree of mildew resistance, and solid "whip-like" stems that don't snap easily make that new hybrid strain outstanding. See Novelty List for further description.

Blue, Lavender and Violet Shades.
Above three shades, each: Tr. pkt., \$1.00; ½ oz., \$2.00; ¼ oz., \$3.50; 1 oz., \$12.00.

Clear White. This is by all odds the finest seed-propagated white Delphinium on the market. Fully double flowers and long spikes, and clean glistening color. Sold out until July, 1938.
Tr. pkt., \$1.50; ½ oz., \$2.25.

For Delphinium Chinensis see Annual List.

®**DIANTHUS.** 28,000 s.

***Loveliness.** Deeply fringed petals, rosy lilac; very free flowering. Flowers second season, 12 to 15 in. Sweetly fragrant.
Tr. pkt., 50c; 1/16 oz., \$1.50.

DIANTHUS—Continued.

Allwoodi Alpinus Mixed. Dwarf, 8 to 10 in., and in a mixture of pink shades. Flowers first season. Attractive for dwarf compact growth.
Tr. pkt., 40c; ½ oz., \$1.25.

***Deltaides Erecto.** 6 in. A dwarf compact Maiden Pink. Bright red, free flowering. Flowers second year, middle of June.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

Plumarius, Single Mixture. (Clove Pink). 20 in. Early flowering and sweet scented.
Tr. pkt., 10c; 1 oz., 35c.

BARBATUS. (Sweet William). 24 in. Perfectly hardy. Flowers second season.

***Newport Pink.** (Pink Beauty). Single. Our stock is a particularly deep rich salmon-rose. A very attractive shade.
Tr. pkt., 15c; 1 oz., 50c.

***Halbarn Glory.** A very attractive combination of deep crimson with white edge. Single. Tr. pkt., 15c; 1 oz., 50c.

Purple Beauty. Single bright deep purple.
Tr. pkt., 20c; ¼ oz., 45c; 1 oz., \$1.25.

Scorlet Beauty. Single, well named.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.

White.
Tr. pkt., 15c; 1 oz., 50c.

Single Mixture.
Tr. pkt., 10c; 1 oz., 35c.

Double Mixture.
Tr. pkt., 15c; 1 oz., 60c.
For other Dianthus see Annual List.

DICTAMNUS Fraxinella. (Gas Plant). 1700 s. Pink with dark veins. Seeds should be sown outdoors in fall for spring germination. Good border plant. 30 in.
Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

DIELYTRA (Dicentra). Spectabilis. (Bleeding Heart). 1600 s. 32 in. Seedlings flower second season. Seed requires a winter's freezing for germination.
Tr. pkt., 50c; ¼ oz., \$1.90; 1 oz., \$7.00.

DIGITALIS. (Foxglove). 4 ft.

Giant Shirley Mixture.
Tr. pkt., 15c; 1 oz., 50c.

GLOXINOIDES.

Purple, Rose, White, Mixture.
Each: Tr. pkt., 15c; 1 oz., 50c.

DORONICUM. (Leopard's Bane). 18,000 s. Attractive yellow Daisy-like flowers. Good long stems for cutting. May be lifted in the fall and planted in a Carnation house for spring forcing.

***Pardalianches, Bunch of Gold.** Long-stemmed and extra free flowering.
Tr. pkt., 75c.

Caucasicum. The standard variety. 2 ft.
Tr. pkt., \$1.00; 1/16 oz., \$2.00.

ERYNGIUM Baurgati. (New). A quite distinct addition to the Ornamental Thistle group. In addition to its bright steel-blue heads and foliage, the deeply cut leaves have light colored veins that add attractiveness. June-flowering. 20 to 24 in.
Tr. pkts. only, 50c.

EUPHORBIA Carallata. (Wild Baby's Breath). 8700 s. Large gypsophila-like flowers, pure white and can be grown in very poor soil.
Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.00.
For other Euphorbia, see Annual List.



Aquilegia Long Spurred Crimson Star
Dark crimson and white are the distinctive contrasting colors of this variety.

MISCELLANEOUS PERENNIALS—Continued

GAILLARDIA (*Grandiflora*). 9500 s. The named varieties listed below, although varying some in color, are excellent cut flower sorts. Improved, uniform stocks can be worked up by root division.

Burgundy. Deep shade of wine-red.
Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.15.

***Dazzler.** Golden yellow with red center. A very good standard variety.
Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.35.

Maxima Aureo. Good deep golden yellow.
Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.20.

The King. Large deep red flowers, edged gold.
Tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.25.

Oculata, New Hybrids. A mixture of original pastel shades. Contains some attractive original colors.
Tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.25.

***Monarch Strain.** A superior mixture of large flowered types with a varied and bright color mixture.
Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.00.

Portola Hybrids Mixed. A standard hybrid mixture.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

***Goblin.** A new dwarf strain for decorative bedding and border work. 12 to 14 in. Forms very attractive compact plants.
Tr. pkt., 50c; ¼ oz., \$1.00.
For *Gaillardia Lorenziana* see Annual List.

GEUM

Lady Stratheden. 7000 s. Double golden yellow.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.65.

Mrs. Bradshaw. Double glowing red. Good for cutting. 24 in.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

GYPSOPHILA. A planting of several varieties of hardy *Gypsophila* adds an interesting and quite valuable variation to outdoor summer cutting material. Perfectly hardy.

***Pacifica.** Flower size of the old Paris Market annual *Gypsophila* but an attractive bright pink shade. Nice.
Tr. pkt., 25c; ¼ oz., 85c; 1 oz., \$3.00.

***Oldhamiana.** A light rose-pink. 24 in. tall with dense heads of feathery flowers. Flowers in late October and first year from an early spring sowing.
Tr. pkt., 25c; ¼ oz., 65c; 1 oz., \$2.50.

PANICULATA. 34,000 s.

Double Snow White. 40 in. About 35 per cent double plants. Fine.
Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.85.

Single White.
Tr. pkt., 15c; 1 oz., 35c.

REPENS. An attractive hardy rock garden subject. 6 in.

White.
Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.35.

Rose.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.
For other *Gypsophila* see Annual List.

®**HELIANTHEMUM Mutabile.** (*Rock Rose*). 15,000 s. Dwarf and evergreen. 8 to 10 in.
Tr. pkt., 15c; 1 oz., 75c.

HESPERIS Matronalis. (*Sweet Rocket*). 15,000 s. Red. 3 to 4 ft.
Tr. pkt., 10c; 1 oz., 25c.

®**HEUCHERA Sanguinea.** An attractive garden plant with some value for cutting. Crimson.
Tr. pkt., 50c; ¼ oz., \$1.25; 1 oz., \$4.50.

HOLLYHOCK.

Imperator. Choice double mixture containing large fringed types.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.60.

Allegheny Mixed. 3500 s. Single.
Tr. pkt., 15c; 1 oz., 50c.

CHATER'S DOUBLE. 2700 s. The standard double Hollyhock strain.

Chamois, Deep Rose, Lilac Beauty, Newport Pink, Scarlet, Sulphur-Yellow, White, Mixture.
Each: Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.25.

®**IBERIS.** (*Perennial Candytuft*). 11,500 s. Some very attractive rock garden subjects, perfectly hardy and early flowering.

Sempervirens. 12 in. White. Flowers in May; second season from seed.
Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Gibraltarica. Large flowered lilac. Free flowering. 12 in.
Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 75c.
For other *Candytuft* see Annual List.

LATHYRUS Latifolius. (*Hardy or Everlasting Sweet Pea*). 550 s.

Pink Beauty, White Pearl, Mixture.
Each: Tr. pkt., 15c; 1 oz., 40c.

LAVANDULA Vera. (*True Sweet Lavender*). 32,000 s.
Tr. pkt., 15c; 1 oz., 50c.

®**LEONTOPODIUM Alpinum.** (*Edelweiss*). Attractive rock garden plant. Must be started early and enjoys a well exposed and drained location. White.
Tr. pkt., 50c; 1/16 oz., \$1.00.

LIATRIS. (*Blazing Star*).

Spicata. 9500 s. Purple-rose. 24 in. August flowering.
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Pycnostachya. Purple. August. 4 feet.
Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

LILY

A rapidly increasing demand for and interest in seed-propagated varieties is fast establishing them as a staple florists' crop. Can be grown in pots or shallow beds or in protected cold frames for summer flowering. "Lilies From Seed," a chapter in the *Ball Red Book*, details some of our experiences in handling this crop.

***White Queen.** 8200 s. The only large flowered pure white seed-propagated Lily we have been able to find. A really outstanding new Lily.
½ tr. pkt., 60c; tr. pkt., \$1.00; ½ oz., \$1.75; 1 oz., \$12.00.

Philippinense Farmasanum, Giant Flowered. An improved form of the original stock of Philippine Lily. Larger flowered and better color.
Tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.50.

Philippinense Farmasanum, Improved. (*The original Philippine Lily*).
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75; 4 ozs., \$5.75.

LILY—Continued.

Regole. (*Regal Lily*). 6500 s. Pink with primrose-yellow center.
Tr. pkt., 15c; 1 oz., 40c.

LINUM Perenne. (*Perennial Flax*). 8500 s. Blue.
Tr. pkt., 15c; 1 oz., 45c.

LOBELIA Cardinalis (*Fulgens*). (*Cardinal Flower*). 36 inches. Deep cardinal-red spike. August flowering.
Tr. pkt., 30c; ¼ oz., 90c.
For other *Lobelia* see Annual List.

LUNARIA (*Biennis*). (*Honesty or Money Plant*). 1500 s.
White, Crimson, Mixture.
Each: Tr. pkt., 15c; 1 oz., 40c.

LUPINUS (*Polyphyllus*). (*Hardy Lupines*). 1450 s. Very good cut flower material. Seed germination inclined to be irregular.

The New Russell Lupins. Advertised and commented on by authorities who have seen them growing, as the outstanding hardy perennial flower seed novelty of the season. Won the much coveted Gold Medal of the Royal Horticultural Society of England where *Polyphyllus Lupinus* reach a high state of perfection. Believe everyone should become acquainted with this much advertised novelty. Seed supply available about January 1, 1938. The features of this new strain are: Extra large flowers, long, closely set spikes, with extraordinary colors; in mixture only. 12 seeds, 25c; 50 seeds, 65c; 120 seeds, \$1.25; 250 seeds, \$2.50.

MISC. POLYPHYLLUS VARIETIES:

Rose. Tr. pkt., 15c; 1 oz., 50c.

Dark Blue, White.
Each: Tr. pkt., 15c; 1 oz., 30c.

Luteus. Yellow.
Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

Chocolate Saldier. Yellow shading to chocolate.
Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Harkness Regal Mixture. Fine hybrid strain containing all shades in this attractive class.
Tr. pkt., 15c; 1 oz., 50c; 4 ozs., \$1.75.
For other *Lupines* see Annual List.

LYCHNIS. 64,000 s.

Alpina. Rose. Excellent for rock gardens. 12 in. and compact.
Tr. pkt., 25c; ½ oz., 90c.

Chalcedonica. Scarlet. 36 in.
Tr. pkt., 15c; 1 oz., 50c.

MATRICARIA (*Capensis*). (*Feverfew*).

***Ball Double White.** Though a trifle later flowering than cutting propagated stock, this seedling strain produces harder flowers that our commission men prefer for handling and shipping. A January sowing will flower outdoors the same summer. For spring forcing sow in early summer, plant indoors after first good frost. Responds readily to additional light.
½ tr. pkt., 30c; tr. pkt., 50c; ½ oz., \$1.00.

Double Golden Ball. Semi-double. 10 in. outdoors.
Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

MISCELLANEOUS PERENNIALS—Continued

®MYOSOTIS

(Forget-me-not). 42,000 s.

Palustris. True Marsh Forget-me-not blue. Tr. pkt., 20c; ¼ oz., 50c; 1 oz., \$1.75.

***Blue Bird.** Oblongata. Standard deep blue Forget-me-not. 12 in. Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.00.

ALPESTRIS. Biennial.

***Royal Blue.** (Stricta Grandiflora). Compact upright habit. Deep rich blue. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.40.

Pink Bauquet. Same as above but a medium deep pink shade. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.90.

Blue Basket. Deep blue. More spreading habit than above varieties. 12 in. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Alba. Of spreading habit. White. 12 in. Tr. pkt., 20c; 1 oz., 60c.

For other Myosotis see Annual List.

®**NEPETA Mussini.** 52,000 s. Light blue. 12 in. June. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

PHYSALIS Francheti. (Chinese Lantern Plant). 18,000 s. Large orange berries. Tr. pkt., 15c; 1 oz., 60c.

PHYSOSTEGIA Virginica. 16,000 s. Rosy lilac. 4 ft. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

PLATYCODON (Grandiflorum). (Tufted Harebell or Balloon Flower). 24 in.

White. Tr. pkt., 20c; ¼ oz., 30c; 1 oz., 90c.

Blue. A clear deep violet-blue. Tr. pkt., 15c; ¼ oz., 25c; 1 oz., 80c.

POPPY (Oriental). (Oriental Poppy). Varieties vary some in color. Large-flowered.

***Olympia.** A seed-produced strain of this well known double Oriental Poppy that comes about 50 per cent true to the large double type. Flowers end of May. 2 to 3 feet. Color light fiery scarlet. Tr. pkts. only, 60c.

Beauty of Livermere. Dark oxblood-red. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

Brilliant. Vivid fiery red. 40 in. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

Mrs. Perry. Fine salmon-rose. Tr. pkt., 35c; ½ oz., \$1.20.

Perry's White. 24 in. Tr. pkt., 50c.

Mixture of all colors in this class. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.25.

For other Poppies see Annual List.

PRIMULA.

Vulgaris. (True Yellow English Primrose). 19,000 s. 6 in. Seeds should have a winter's freezing for proper germination. Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.75.

Bulleesiana Hybrids. 18 in. Bright mixture of yellow, orange, apricot, and carmine shades. Seed of irregular germination. Tr. pkt., 50c; ½ oz., \$1.25.

VERIS. A sowing in October will produce nice 3- and 4-in. pot plants in flower by spring. Used outdoors with some shade where summers are not too hot.

***Kleyni.** A particularly valuable, hardy Primula because of its extra long-stemmed and large flower heads. Easily forced in spring. Golden yellow to apricot. 100 seeds, 40c; 250 seeds, 85c; 1000 seeds, \$3.00.

PRIMULA—Continued.

***Giant Munstead Strain.** 34,000 s. Large flowered strain in mixture of yellow and lighter shades. A standard strain. Tr. pkt., 50c; ¼ oz., \$1.25.

***Callasea.** Much larger flowered than other varieties; bright color mixture. Our trial shows it a real improvement. Tr. pkts. only, \$1.00.

Palyanthus Mixture. 12 in. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

For other Primulas see page 23.

PYRETHRUM.

Ptarmicaeflorum. Very dwarf, finely feathered foliage. Silvery white. Sow in February for spring sales. 5 in. Tr. pkt., 35c; 1/16 oz., \$1.00.

Parthenifolium Aurea Excelsiar. Same as above but foliage is a distinctly yellow color. 3 in. Tr. pkt., 35c; ½ oz., \$1.00.

Uliginosum. 62,000 s. Single white daisy-like flowers. 3 ft. Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.25.

ROSEUM. (Painted Daisy). 21,000 s. The standard cut flower class.

***Semi-Double Mixture.** An excellent strain that requires two-year-old clumps to produce its fully double flowers. Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.50.

***Kelway's Strain.** Dark red. Very fine cut flower color. Tr. pkt., 35c; ¼ oz., 90c; 1 oz., \$3.00.

Single Mixture. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

RUDBECKIA Purpurea. (Echinacea). 7,000 s. 4 ft. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

For other Rudbeckia see Annual List.

SALVIA Patens. 3,800 s. Navy blue. 30 in. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.75.

For other Salvia see Annual List.

®**SAPONARIA Ocymoides.** 5500 s. Rose. Trailing. 12 in. Tr. pkt., 20c; 1 oz., 60c.

For Saponaria Vaccaria see Annual List.

SCABIOSA. 2400 s. Excellent perennial cut flowers, larger than the annual form, perfectly hardy and early flowering. Germination of seed sometimes irregular.

Columbaria Lavender. Delicate color. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Calumbaria Pink. Orchid-pink. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.00.

Caucasica. Lilac-lavender. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

***Hause Hybrids.** Shades of lavender and blue. Very fine strain. Tr. pkt., 35c; ¼ oz., 85c; 1 oz., \$3.00.

For other Scabiosa see Annual List.

®SEDUM.

***Acre.** 3 in. A very nice extra dwarf evergreen. Small light yellow flowers account for its common name—Golden Moss. Tr. pkt., 25c; ½ oz., 80c.

Aizaan. 4 in. Attractive dwarf form, bright yellow with contrasting reddish brown foliage. Tr. pkt., 50c; ½ oz., \$1.25.

Kamtschaticum. Very nice rock garden subject. Yellow flowers. 6 to 8 in. Tr. pkts. only, 50c.

SEDUM—Continued.

Reflexum, Chamelean. Growth starts green, gradually turning buff or light brown shades as season advances. Bright yellow flowers in midsummer. 8 to 10 in. Tr. pkts. only, 50c.

SEMPERVIVUM (House Leek).

Perennial Mixture. Tr. pkt., 35c; 1/16 oz., \$1.25.

®**SPERGULA Pilifera.** Rounded, compact, hard growth; plants covered with small, white flowers in June. Attractive dwarf rock garden or border plant. Tr. pkt., 50c; 1/16 oz., \$1.50.

STATICE. Perennial Statice are very hardy, make good cut flowers and some of them may be dried successfully.

Caspia. Soft lilac. 30 in. Flowers second season. Tr. pkt., 35c; ¼ oz., 60c; 1 oz., \$2.25.

Dumasa. 19,000 s. Dense clumps of silvery gray flowers the second year. 18 in. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.65.

Incana. (Tatarica). 13,000 s. Small white flowers that may be dried. 14 in. Tr. pkt., 15c; 1 oz., 65c.

***Latifolia.** 40,000 s. Standard blue perennial Statice. 30 in. Flowers second season. Very hardy. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.35.

***Perezii.** 14,000 s. Similar to above but needs protection over winter. Tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.50.

Puberula. 5200 s. A dwarf form about same flower as S. Latifolia. Flowers first season. 8 to 10 in. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

For other Statice see Annual List.

STOKESIA Cyanea. 3300 s. Blue. 16 in. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.25.

THALICTRUM Dipteracarpum. 12,000 s. Graceful, tall plant with fine textured foliage. 3 to 4 ft. Good for cutting or garden decoration. Flowers in clusters, rosy purple. Flowers with us second season. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.50.

TRITOMA Mirabilis Hybrids. Yellow shades but varies. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.

TROLLIUS (Ledebouri). (Globe Flower). Seed should be frozen over winter for proper germination.

Golden Queen. 8000 s. Large orange flowers, 3 to 4 ft. Fine early variety. Tr. pkt., 50c; ½ oz., \$1.35.

Orange. 24 in. Tr. pkt., 50c; ½ oz., \$1.50.

®**TUNICA Saxifraga.** Very dwarf, 8 to 10 in. Flowers small, rosy lilac, and produced first season. Tr. pkt., 15c; 1 oz., 60c.

VALERIANA Rubra. 13,000 s. 36 in. Deep crimson flowers. Good for cutting. Tr. pkt., 15c; 1 oz., 60c.

VERONICA.

Longifolia. Compact clusters of blue flowers. 30 in. Tr. pkt., 25c; ¼ oz., 35c; 1 oz., \$1.25.

***Repens.** White with light blue. Very dwarf trailing. Early flowering. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.25.

VEGETABLE SEEDS FOR FLORISTS

WITH increasing interest in home gardens, florists should take full advantage of the opportunity of supplying vegetable plants that are sure to be called for in increasing quantity—especially Tomato, Pepper and Cabbage. In our list of varieties you will find those adapted to home garden use as well as varieties suitable for those who grow for market. If you want any item or quantities not listed, write and we will be glad to quote. Our supplies are obtained only from the most reliable growers and are the same high quality as our "Flower Seeds for Florists."

NEW EVERBEARING STRAWBERRY, BARON SOLEMACHER

This variety improves in size and length of fruit the variety RUGEN, sent out by us a few years ago. The product of a German specialist. If sown early February, will produce freely by autumn. Should be watered when dry, and they enjoy some protection from the strong sun.
Tr. pkt. (1000 seeds), 50c.

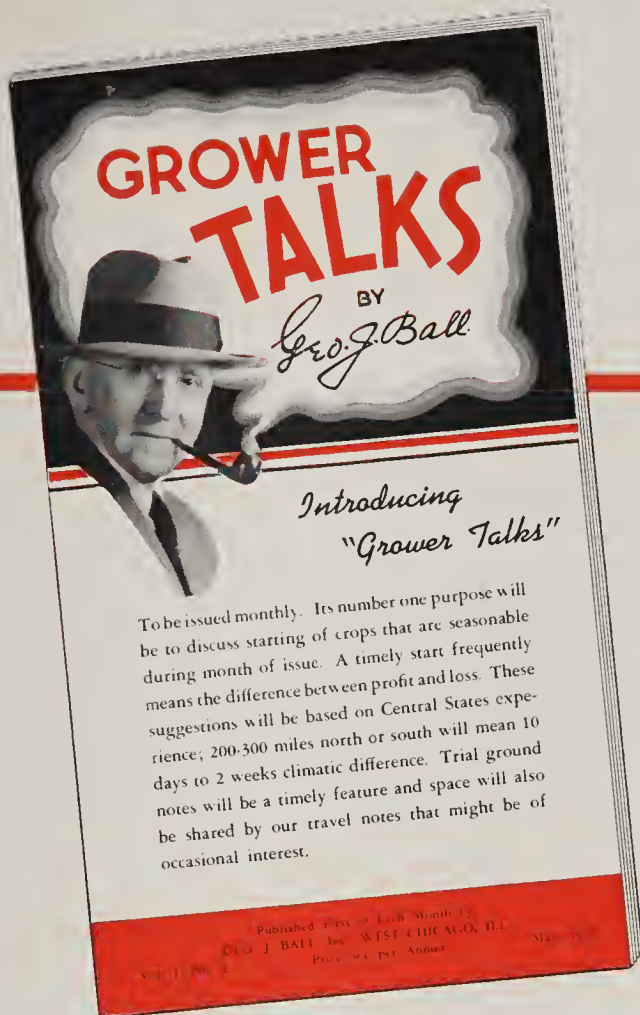
	1 oz.	4 ozs.	1 lb.
BEET			
Crasby's Egyptian. (Original Strain). 55 days. Extra early for home and market gardeners. Globe-shaped. Dark purplish red, crisp and tender, excellent quality	\$0.10	\$0.30	\$1.00
Detroit Dark Red. (Improved Strain). 55 days. Standard for home and market garden. Uniform globe-shaped. Blood-red, tender until full grown	.10	.35	1.00
CABBAGE			
All Head Early. Good winter keeper. Deep heads, firm, fine quality, valuable for kraut. 77 days	.20	.65	2.15
Copenhagen Market. Regular early. Medium sized heads; compact, good yielder, 70 days	.25	.75	2.60
Danish Ballhead. Best late variety, heads large, flat, firm and solid, keeps in storage until late spring	.30	.85	2.65
Early Dwarf Flat Dutch. Splendid for home and market garden; heads almost ball-shaped, firm, fine flavor and high quality, 71 days	.25	.65	2.10
Early Jersey Wakefield. Extra early, valuable for home or market growers. Plants small, allowing close planting; firm heads, 2-2½ lbs. 62 days. Sure header, fine for southern shippers	.25	.70	2.25
Golden Acre. Earliest round head variety for early market and shipping. Short stem. 62 days. Uniformly firm round heads, matures evenly	.30	.90	3.10
Large Wakefield. Heads larger and broader, but fully a week later than Early Jersey Wakefield	.20	.70	2.25
Late Flat Dutch. The best large late variety. Popular for home and market garden and shipping. Good keeper, firm heads of good quality. 110 days. Very hardy and dependable	.20	.65	2.10
Mammoth Rock Red. Best red variety. Good keeper, round hard heads, deep purplish red. 90 days	.35	.90	3.25
Sovoy Improved American. The best of this class, medium large, firm heads; fine flavor. 85 days	.30	.80	3.10
Wiscansin All-Season Resistant. Valuable in localities infested with "cabbage yellows." Good winter keeper; large flat hard heads. Excellent kraut variety. 90-95 days	.40	1.30	3.75
CARROT			
Gonsenheimer, Forcing Special. Fine for forcing or home garden variety. Nearly coreless. Half-long. Especially adapted for forcing	.25	.85	
Chantenay. Fine all-purpose variety for home and market garden and shipping. Dependably heavy yielder. Good for winter storage. 70 days	.15	.40	1.25
Danvers Half-Long. Very productive and uniform. Bright orange—much used for shipping. 75 days	.20	.60	1.75
CAULIFLOWER			
Danish Giant, Dry Weather. Most dependable, large fine heads. 65 days ¼ oz., 75c; ½ oz., \$1.25			2.10
Early Snowball. Best early greenhouse-forcing variety, medium pure white heads, good shipper. The standard of excellence. 52 days ¼ oz., 65c; ½ oz., \$1.25			2.00
CELERY			
Golden Plume or Wonderful. Better and earlier than Golden Self Blanching, a leader for market gardening and shipping ¼ oz., 35c; ½ oz., 60c	1.10		
Golden Yellow Self-Blanching Dwarf. Standard market and shipping sort ¼ oz., 20c; ½ oz., 35c	.55		
CELERIAC			
Large Smooth Progue. Turnip-rooted celery. Fairly smooth, stalks hollow, keeps until late winter	.30	.90	
CUCUMBER			
Straight 8. (All-America Gold Medal Winner). An outstanding variety, producing symmetrical cylindrical fruits about eight inches long, 1½ inches in diameter; deep green, when ready for use, and an ideal shipper. Also desirable for home and market gardens Pkt. 15c	.30	.90	
Chicago Pickling. (Westerfield). Most valuable for pickling and slicing. 6-7 inches, uniform. 60 days	.20	.50	
Davis Perfect. Fine slicing variety. Good shipper. 9-11 inches. Good for greenhouse growing	.20	.45	
Early Fortune. Best for slicing or shipping. Dark green. 8-9 inches long. Uniform. 68 days	.20	.45	
EGGPLANT			
Black Beauty. Popular home and market variety. Rich dark purple	.45	1.40	
Improved Large Purple. (Spineless). The standard home and market sort, early, good producer	.45	1.40	
KALE			
Dwarf Green Curled. Very hardy, 12-15 inches tall, 30-inch spread. Finely curled	.15	.35	
KOHLRABI			
Early White Vienna. Standard sort for forcing and home garden. Globe-shaped. 60 days outdoors	.20	.50	
LETTUCE			
All-Season Head. Valuable market and home garden variety; round, firm heads	.15	.45	1.40
Big Boston. Select stock. Most widely popular of all heading Lettuce. Largely used for summer and fall hotbed and cold frame culture. Cabbage butter-head type, excellent quality	.15	.40	1.30
Block-Seeded Simpson. Early, dependable everywhere and largely used by home and market gardeners. Loose-leaved and frilled, grows quickly, fine quality	.15	.40	1.15
Grand Rapids Forcing. The standard loose leaved variety for greenhouse forcing. Tender and sweet under glass. Best early market variety	.15	.50	1.60
Mammoth Black Seeded Butter. Fine butter heading variety for home and market, especially good for summer. Head large and firm, excellent quality and flavor	.15	.45	1.40
New York Special No. 12. Early, sure heading and does well in mid-summer. Very popular for shipping	.15	.50	1.75

VEGETABLE SEEDS FOR FLORISTS—Continued

		1 oz.	4 ozs.	1 lb.
ONION				
Prizetaker. Large, globular; yellow, good shipper and keeper, flesh coarse and mild		\$0.30	\$0.90	
Yellow Globe Danvers. Very popular; medium large; globe-shaped; flesh white with tinge of yellow, firm and hard, excellent keeper		.25	.75	
PARSLEY				
Extra Triple Curled (Moss Curled). Very compact. Dark green; finely cut and closely curled		.15	.35	
Paramount. New and improved triple curled variety, unusually rich dark green foliage tightly curled, finest variety for home or market gardeners		.20	.70	
PEPPER				
		1/2 oz.	1 oz.	4 ozs.
California Wonder. (Sweet). 72 days. Standard of excellence in Sweet Peppers. Used largely by market growers and shippers. Heavy producer over long period. Fruit large, smooth, dark green, becoming crimson; flesh firm and thick		\$0.35	\$0.60	\$2.00
Chinese Giant. (Sweet). 80 days. The largest Sweet Pepper. Deep green, becoming scarlet-red		.30	.50	1.75
Crimson Giant. 85 days. Very mild, popular home and market sort. Deep green, becoming deep crimson		.30	.40	1.40
Harris' Early Giant. (Sweet). 63 days. Very early for home and market; very prolific, deep green, turning red, well suited to northern states		.30	.50	1.50
Hungarian Yellow Wax. (Hot). Very early. Desirable for canning or market garden. Light yellow becoming bright red. Plants small, heavily productive		.35	.60	1.90
Sweet Bull Nose. Mild-fleshed. 55 to 60 days. Deep green becoming scarlet; early and prolific		.25	.40	1.10
Large Sweet Spanish. 80 days. For home and market garden; heavy producer; dark green to rich red		.25	.45	1.25
Long Red Cayenne. (Hot). 70 days. For pickles, canning or drying, very prolific. Deep green, becoming bright red, fruit long, thin, and tapered		.25	.40	1.20
Magnum Dulce. Mild, fine for salad. Grows very large		.35	.55	1.90
Pimenta. (Perfection). Sweet. 72 days. Standard variety for home or market garden and for canning whole. Deep green, becoming deep red. Heavy producer, fruits smooth and regular, flesh sweet		.20	.35	1.00
Ruby King. Sweet. Standard for home or market. Deep green, turning bright red. 68 days. Very productive		.20	.35	1.00
World Beater. (Sweet). 70 days. Large, oblong, green, turning deep red; thick flesh. Very productive		.20	.35	1.25
RADISH				
		1 oz.	4 ozs.	1 lb.
Early Scarlet Globe. (Short Top Strain). Our strain of this very early forcing variety is a superior one; small tops make it right for bunching. 23 days. This is an ideal florists' "catch crop" for selling to local stores		\$0.10	\$0.30	\$0.90
Icele. 27 days. Best early standard white Radish for home and market gardens, roots long, very white and brittle, mild and good flavor		.10	.30	.90
Scarlet Turnip. White-tipped popular variety for home and market gardens. Tops small, roots deep, turnip-shaped, bright scarlet; fine quality		.10	.25	.75
SPINACH				
Giant Thick-Leaved. (Nobel). 43 days. Best of thick-leaved group; long standing; heavy yielder; deep green, smooth leaves			.15	.40
New Zealand. Distinctly valuable for hot, dry weather; seeds are large, nutlike; plants large and spreading; leaves small, thick, deep green and tender		.10	.25	.60
SWISS CHARD, Lucullus. Deep green, fleshy, crumpled leaves, choice for greens—most popular variety				
		.15	.35	
TOMATO				
Michigan State Forcing. New and distinct greenhouse Tomato, developed at Michigan State College. Self-pollinating, and wilt-resistant; rich, deep scarlet fruits, globular, medium size, in large clusters; fine shippers. Highly productive under restricted daylight conditions Pkt. 25c		.75	2.75	
Banny Best. Unexcelled for all purposes including forcing under glass, smooth and firm. 73 days		.25	.80	2.90
Break O' Day. Early wilt-resistant, globe-shaped; fine for shipping; heavy producer, flesh firm and good quality		.35	1.00	
Chalk's Early Jewel. 75 days. Fine for home and market, heavy producer, scarlet-red—smooth and firm		.30	.90	3.00
Crimson Cushion, or Beefsteak. Large, round, bright scarlet; solid; very prolific. 120 days		.45	1.40	4.75
Dwarf Champion. Treelike. Requires no support; medium size, solid pink fruit. 78 days		.45	1.40	
Dwarf Stane. 81 days. Strictly dwarf, tree-like, fruits bright red, smooth and solid		.35	1.25	
Earliana. Very early—particularly valuable for home and early market garden. Medium size, deep scarlet, firm and smooth. 64 days		.35	1.00	3.60
Early Detroit. Particularly valuable for shipping. Purplish pink, medium, large, smooth fruit. 78 days		.40	1.20	4.00
Golden Queen. 83 days. Best large yellow fruited; golden-yellow; firm and smooth, mild flavor		.45	1.25	
Greater Baltimore. Mid-season for truckers, canners and home gardeners. Earlier than Stone, heavy producer, deep scarlet, firm and solid		.30	.85	3.00
Supreme Gulf State Certified. Very fine second early for shipping and market use, crimson, medium size, very solid, thick skinned, and smooth Pkt. 25c		.75	2.75	
Jahn Baer. Standard all-purpose variety, second early, used largely for canning and market gardeners, medium size, good quality. 71 days		.40	1.15	3.90
June Pink. 65 days. Earliest pink, early shipper, good producer		.45	1.25	
Livingston's Globe. Heavy producer. Good greenhouse grower. Large purplish pink fruit; smooth and solid. Fine for market growers		.40	1.25	4.00
Marglobe. Particularly valuable for shipping and highly resistant to disease. Smooth; of distinct quality and long bearing. Fine for canners. 75-78 days		.35	1.00	3.60
Oxheart. Late home garden variety. Extra large, heart-shaped; few seeds, mild flavor, choice for salads		.65	2.00	
Penn State Earliana. Extra early, large size, smooth. Rich scarlet color; mild and solid—good producer		.40	1.25	
Panderasa. Valuable for home use. Extremely large; purplish pink, with few seeds, mild flavor. 85 days		.45	1.40	
Pritchard (Scarlet Topper). Fine all-round variety—heavy yielder; second early; wilt-resistant; fruit solid, brilliant red		.40	1.25	4.25
Stone. 85 days. Valuable for market and canning; heavy producer; deep scarlet; smooth		.30	.90	3.00
Yellow Husk or Grand Cherry. (Not a true Tomato; sometimes called Strawberry Tomato). Used for preserving. Fruits borne singly; small, round, enclosed in papery envelope; of rich, sweet flavor		.40	1.25	
TURNIP, Purple-Tap White Globe		.10	.20	.50

NOTE: Our seed cannot be bought from dealers or agents, EXCEPT IN OUR PRINTED PACKETS OR CONTAINERS. Avoid uncertainty and possible loss by ordering direct from us, or through our regular representatives who sell in our containers only.

Service to Growers



"GROWER TALKS"

Published monthly in the interest of growers of miscellaneous crops. Its first purpose will be to remind you of crops that should be started during the month of issue. Such suggestions might prove of real value to busy planters. Unbiased notes from our trial grounds, greenhouses and travels will contribute practical value. Mailed 12 months for

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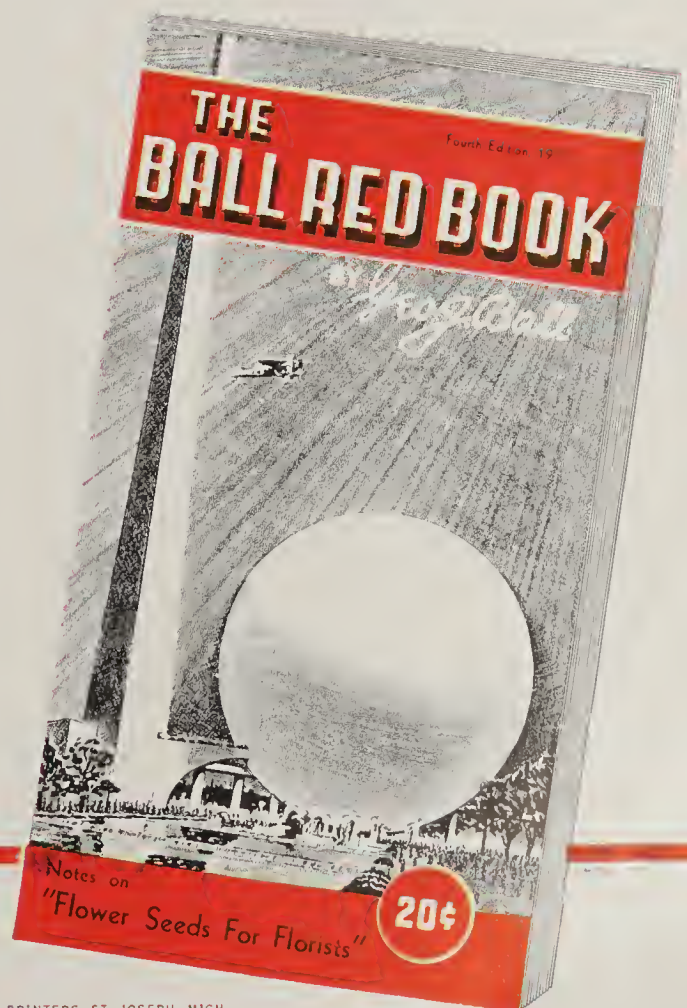
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Another form of our service that is quite generally appreciated by growers of miscellaneous crops. Through regular new editions we try to keep you posted on the latest cultural methods and varieties. Every edition covers an increasing number of interesting items. Rewritten and enlarged—

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